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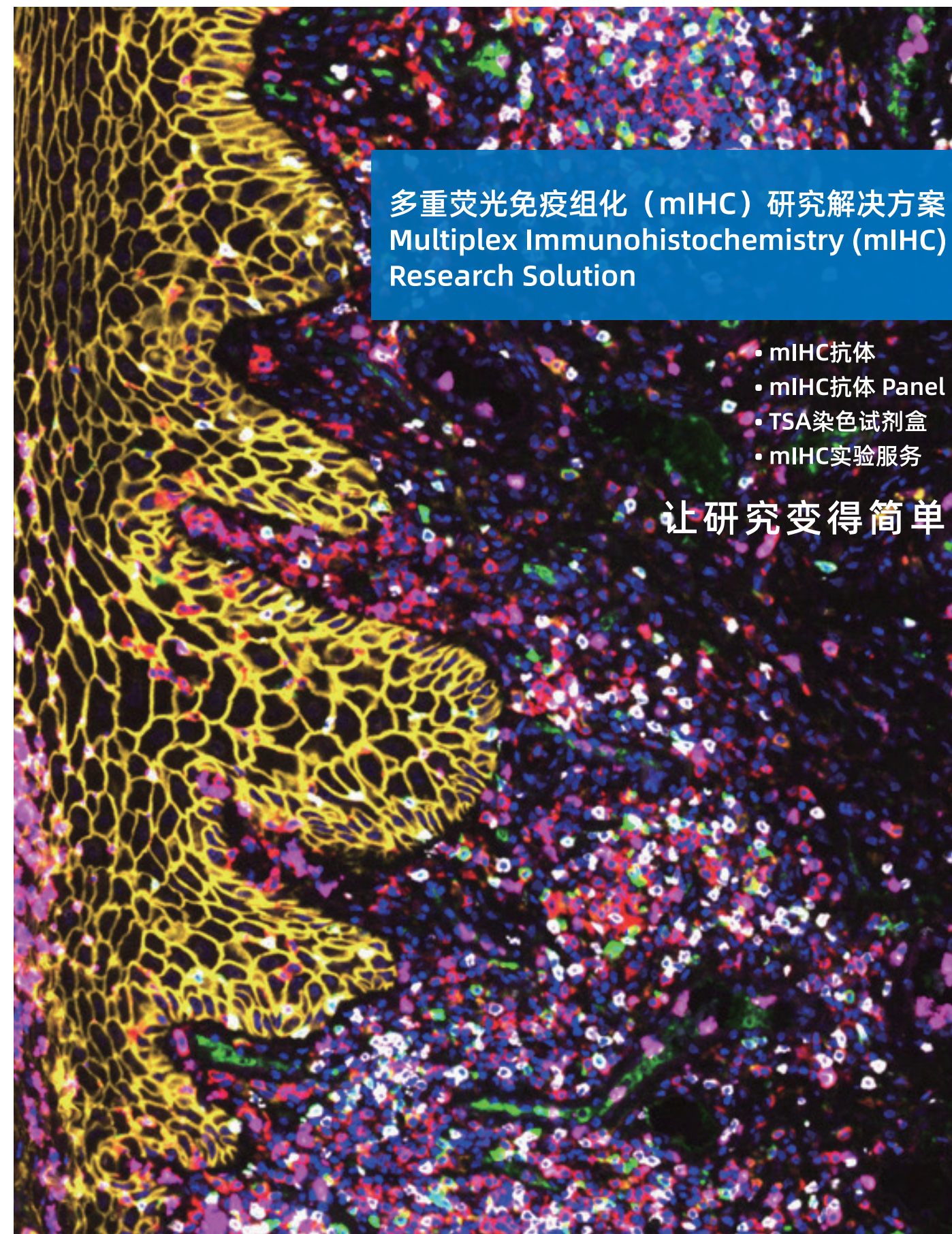
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多重荧光免疫组化 (mIHC) 研究解决方案
Multiplex Immunohistochemistry (mIHC)
Research Solution

- mIHC抗体
- mIHC抗体 Panel
- TSA染色试剂盒
- mIHC实验服务

让研究变得简单

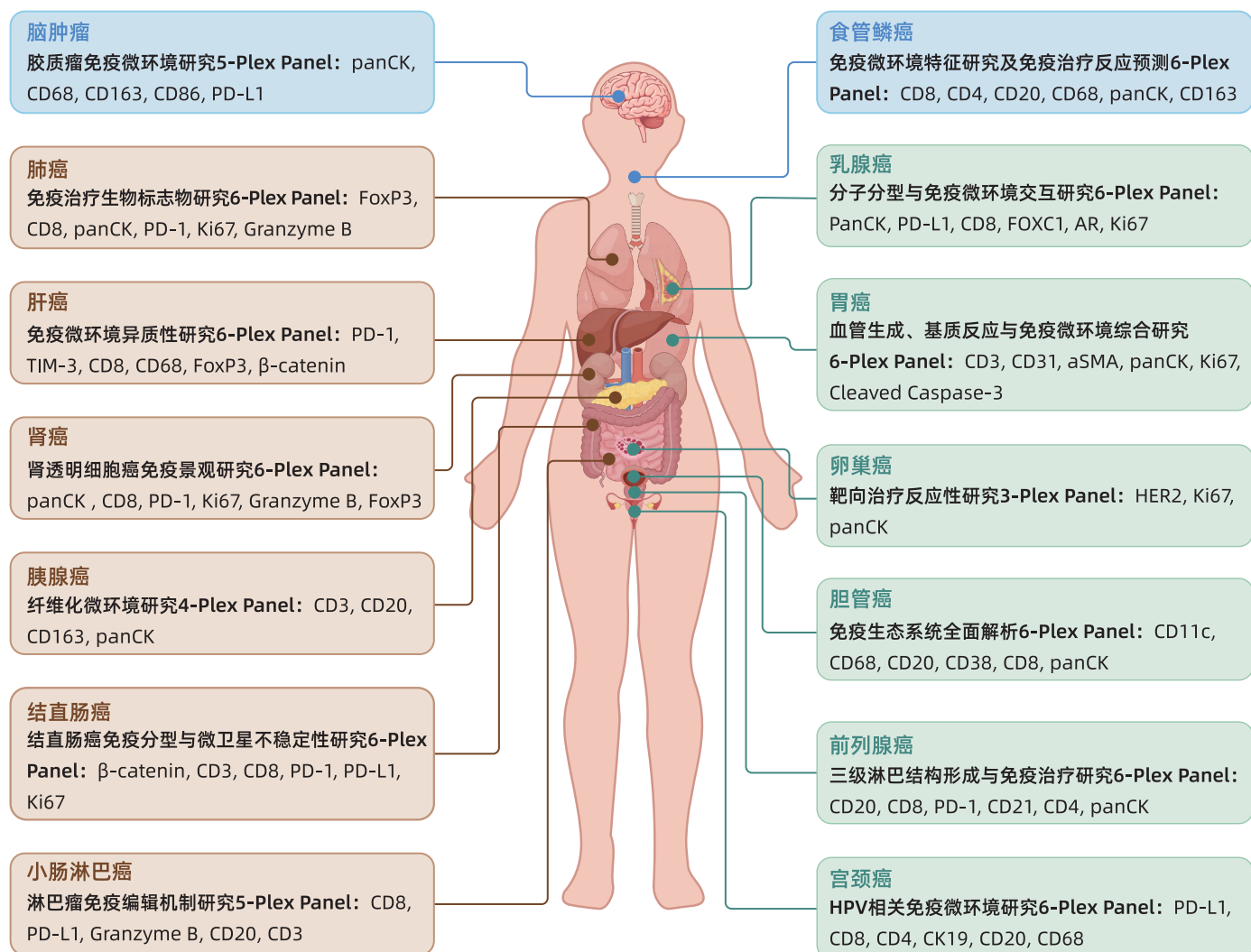
 华安生物
H U A B I O

一抗验证成熟，灵活兼容，实验结果稳定可靠

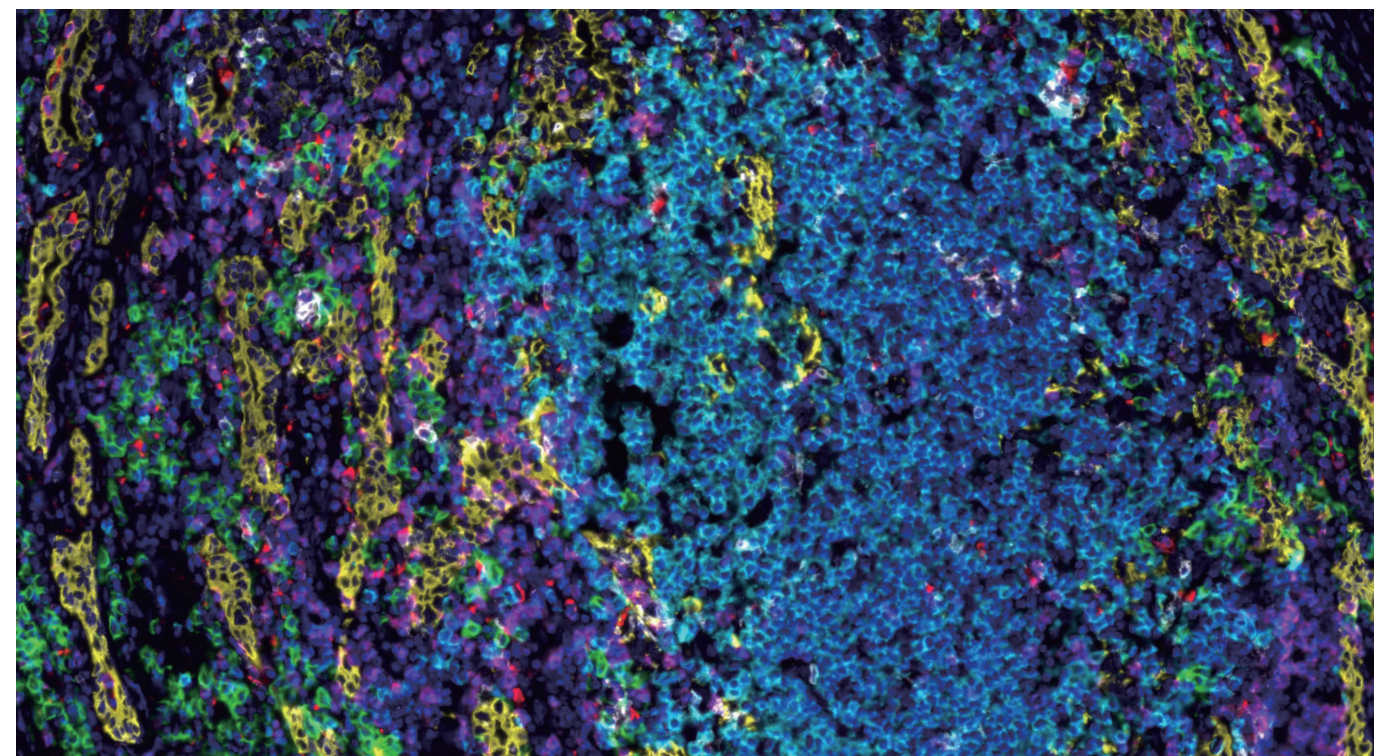
我们以显色金标准验证mIHC抗体确保产品特异性和灵敏度，更在多种组织中验证确保结果可重复性。除此之外，我们的抗体在不同TSA染色体系中兼容，无需购买特定染色体系，实验成本更低。



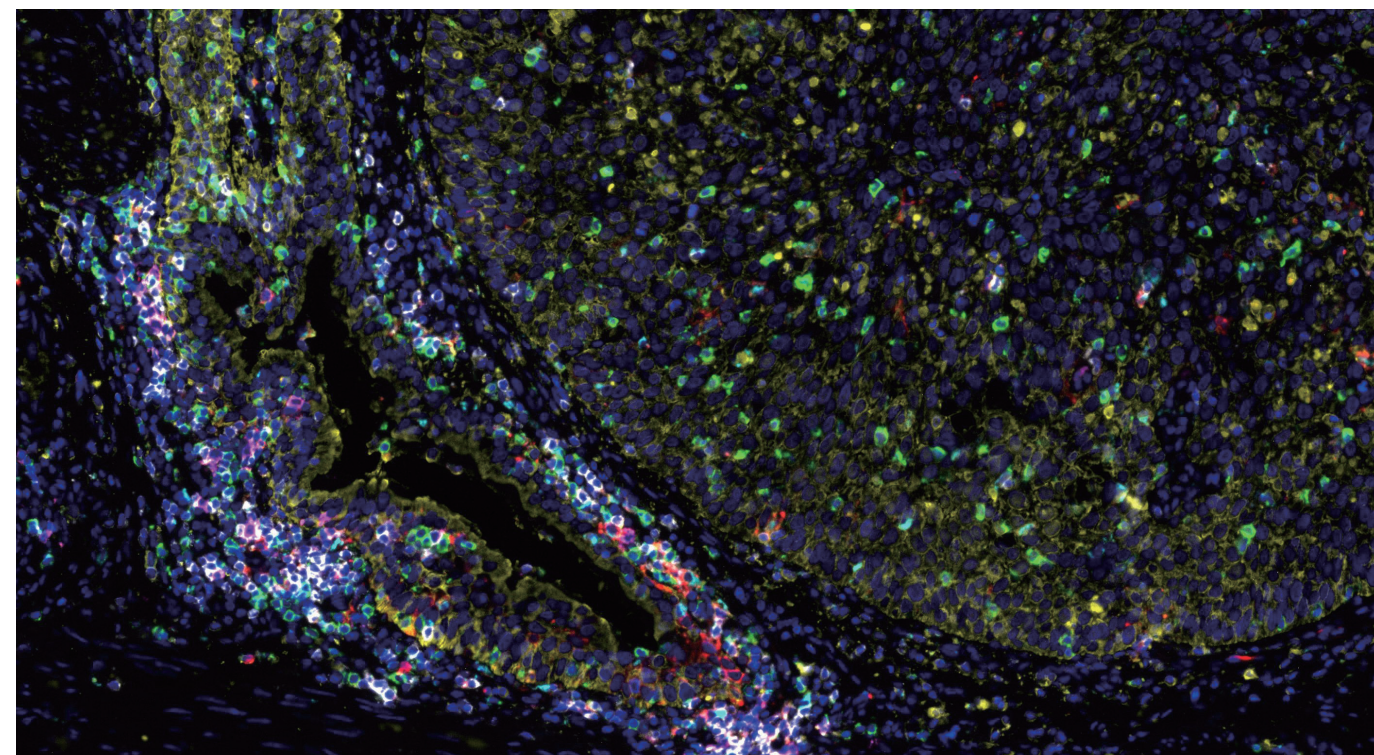
对肿瘤免疫微环境的复杂性进行表征分析 — 热门抗体Panel推荐



Human cholangiocarcinoma CD11c/CD68/CD20/CD38/CD8/pan CK/DAPI

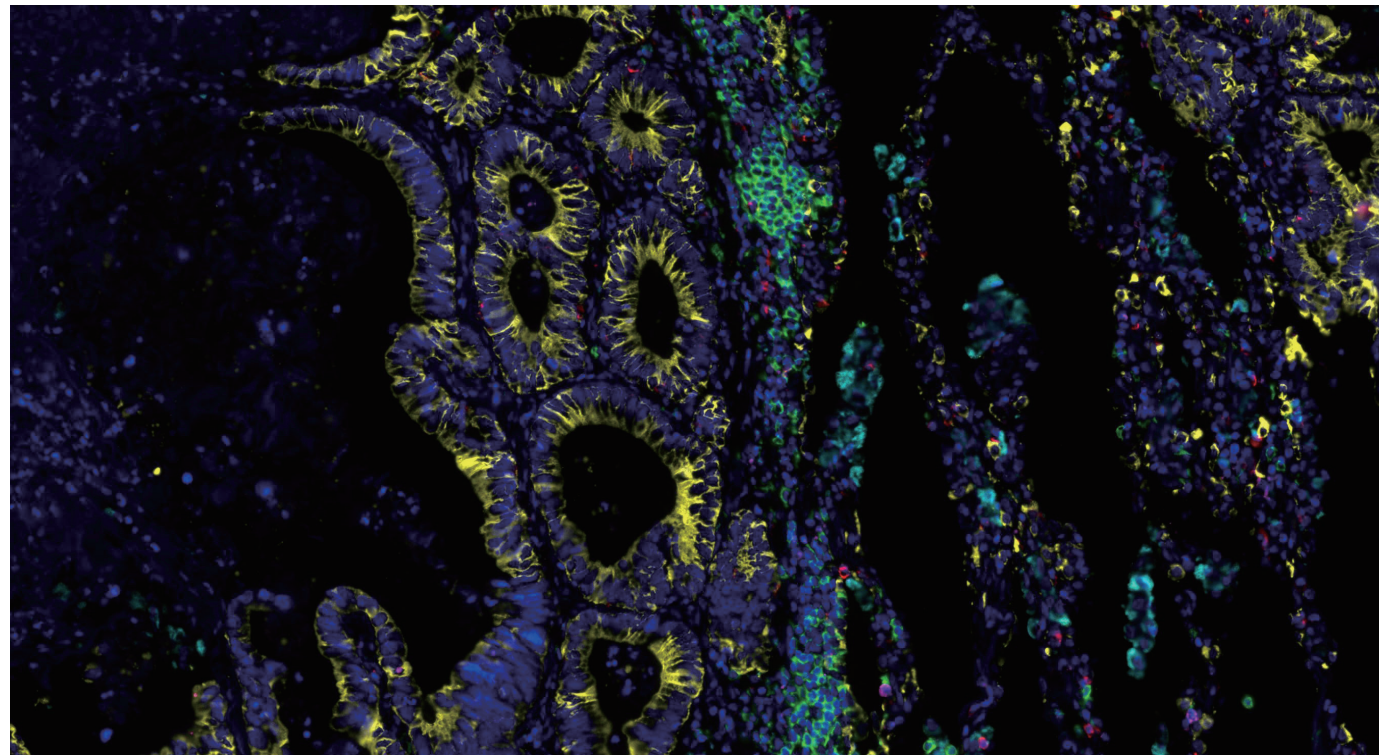


Human small cell lung cancer PD-L1/CD8/CD3/CD68/CD20/pan CK/DAPI



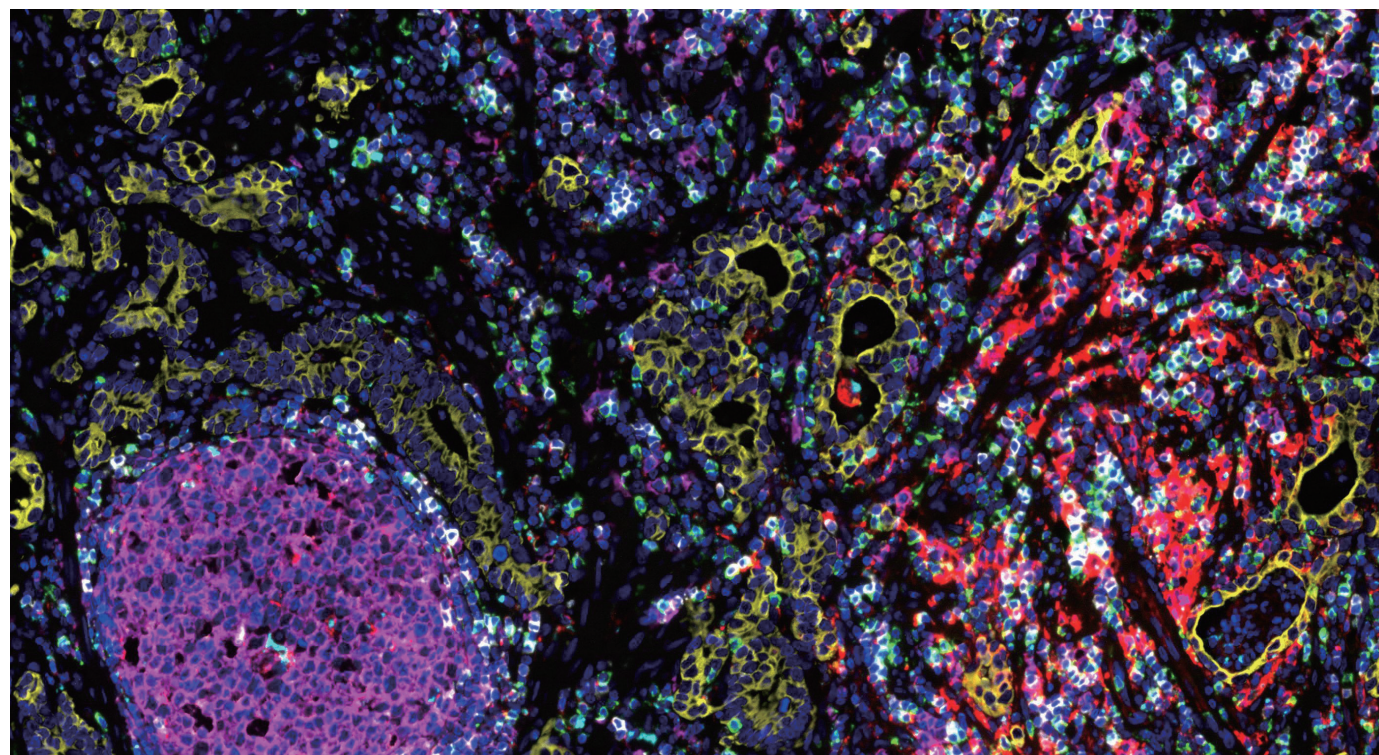
Human colorectal cancer

CD8/CD20/CD68/CD4/pan CK/DAPI



Human gastric cancer

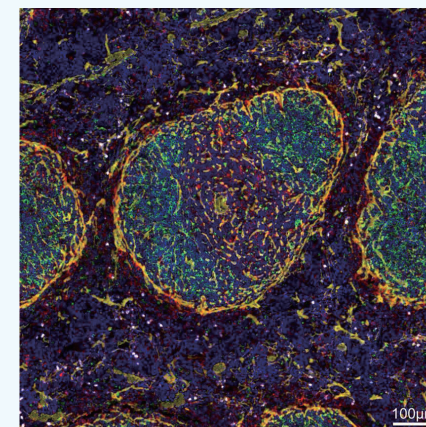
PD-L1/CD8/CD3/CD68/CD20/pan CK/DAPI



对不同器官的组织微环境进行空间表型分析 — 热门抗体Panel推荐

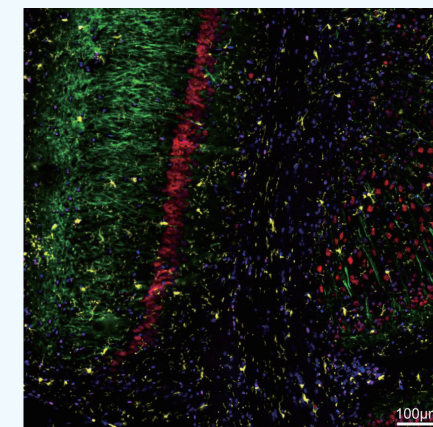
组织类型	特异性标记物	功能/状态标记物
Pancreas	Insulin, Glucagon, Amylase, CK19	Ki67, Cleaved Caspase-3, CD3
Kidney	NPHS4, AQP1, AQP2, Pax8	Kim-1, CD68, α -SMA, PDGFR β
Small Intestine	Villin, MUC2, Lyz, Lgr5	Ki67, Cleaved Caspase-3, CD3
Lung	TTF-1, AQP5, Acetyl- α -Tubulin	Surfactant Protein C, CD68, MUC5AC, α -SMA
Liver	Albumin, CK7/CK19, CD31	α -SMA, CD68, β -catenin
Spleen	CD20/CD19, CD3, CD8, CD68	Ki67, IgD, CD138
Brain	NeuN/MAP2, GFAP, Iba1/TMEM119, Olig2, PAX6	c-Fos, CD68, Cleaved Caspase-3

Mouse spleen

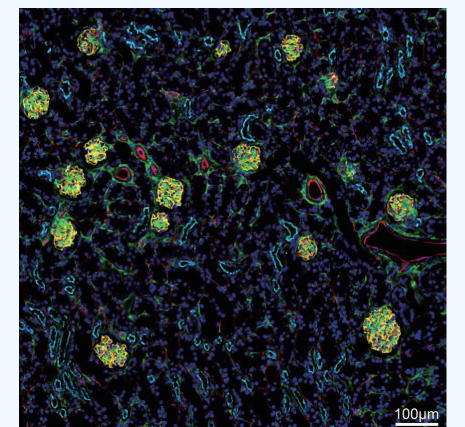
PD-L1/HLA-DR/Ly6G/ α SMA/DAPI

Mouse brain

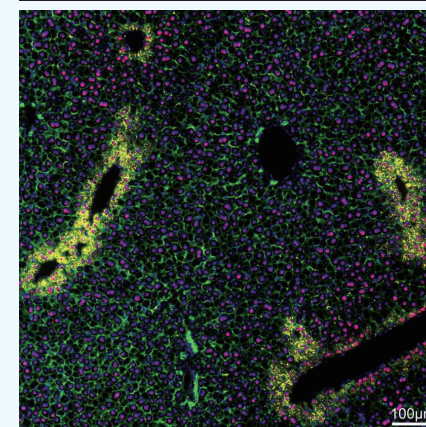
PAX6/NeuN/Iba1/MAP2/DAPI



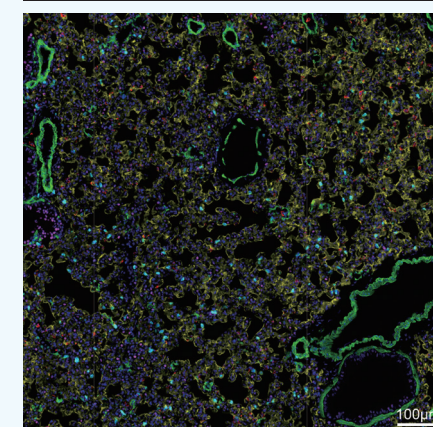
Mouse kidney

NKCC2/NPHS2/PDGFR β /CD31/DAPI

Mouse liver

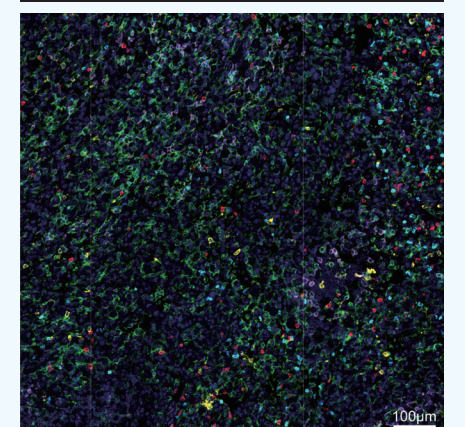
HNF4a/GS/ β -Catenin/DAPI

Mouse lung

TTF1/RAGE/CD20/CD4/ α SMA/DAPI

Mouse osteosarcoma subcutaneous tumor

CD8/F4/80/CD4/CD206/CD11c/DAPI



热门mIHC抗体推荐

● 该靶点mIHC抗体库具备广泛的异种属选择

Product name	Catalog#	Reactivity	Antibody type
alpha smooth muscle Actin	IRS012	Human	Rabbit mAb
AQP1	IRS088RB	Human	Rabbit mAb
Arginase1	IRS081RB	Human	Rabbit mAb
BCL6	IRS097MS	Human	Mouse mAb
Beta Catenin	IRS043	Human	Rabbit mAb
Calbindin	IRS098RB	Human	Rabbit mAb
Cathepsin D	IRS099RB	Human	Rabbit mAb
CD10	IRS101MS	Human	Mouse mAb
CD11b	IRS014	Human	Rabbit mAb
CD11c	IRS001	Human	Rabbit mAb
CD14	IRS015	Human	Rabbit mAb
CD15	IRS107RB	Human	Rabbit mAb
CD16	IRS017	Human	Rabbit mAb
CD163	IRS002	Human	Rabbit mAb
CD19	IRS018	Human	Rabbit mAb
CD1c	IRS111RB	Human	Rabbit mAb
CD20	IRS003	Human	Rabbit mAb
CD21	IRS019	Human	Rabbit mAb
CD23	IRS021	Human	Rabbit mAb
CD27	IRS115RB	Human	Rabbit mAb
CD3	IRS022	Human	Rabbit mAb
CD31	IRS023	Human	Mouse mAb
CD34	IRS024	Human	Rabbit mAb
CD36	IRS118RB	Human	Rabbit mAb
CD38	IRS006	Human	Rabbit mAb
CD4	IRS005	Human	Rabbit mAb
CD44	IRS122RB	Human	Rabbit mAb
CD45	IRS025	Human	Rabbit mAb
CD45RO	IRS124MS	Human	Mouse mAb
CD57	IRS027	Human	Mouse mAb
CD66b	IRS127RB	Human	Rabbit pAb
CD68	IRS004	Human	Mouse mAb
CD8	IRS129RB	Human	Rabbit mAb
CD8a	IRS007	Human	Mouse mAb
CD98	IRS130MS	Human	Mouse mAb
Chromogranin A	IRS132MS	Human	Mouse mAb

Product name	Catalog#	Reactivity	Antibody type
c-Kit	IRS013	Human	Rabbit mAb
Cleaved Caspase-3	IRS136RB	Human	Rabbit mAb
COL1A1	IRS137RB	Human	Rabbit mAb
CTLA-4	IRS016	Human	Rabbit mAb
CYP2E1	IRS139RB	Human	Rabbit mAb
Cytokeratin 13	IRS133RB	Human	Rabbit mAb
Cytokeratin 14	IRS162RB	Human	Rabbit mAb
Cytokeratin 18	IRS028	Human	Rabbit mAb
Cytokeratin 19	IRS011	Human	Rabbit mAb
Cytokeratin 20	IRS135RB	Human	Rabbit mAb
Cytokeratin 5	IRS249RB	Human	Rabbit mAb
Cytokeratin 7	IRS029	Human	Rabbit mAb
E-Cadherin	IRS030	Human	Rabbit mAb
EGFR	IRS046	Human	Rabbit mAb
EpCAM	IRS254RB	Human	Rabbit mAb
Estrogen Receptor alpha	IRS142RB	Human	Rabbit mAb
FAP	IRS289RB	Human	Rabbit mAb
FOXP3	IRS008	Human	Rabbit mAb
Ghrelin	IRS149RB	Human	Rabbit mAb
Glucagon	IRS150RB	Human	Rabbit mAb
Glucose Transporter GLUT1	IRS151RB	Human	Rabbit mAb
Glutamine Synthetase	IRS033	Human	Mouse mAb
Granzyme B	IRS032	Human	Rabbit pAb
Heme Oxygenase 1 (HO-1)	IRS156RB	Human	Rabbit mAb
HER2 / ErbB2	IRS034	Human	Rabbit mAb
HLA-DQA1	IRS035	Human	Rabbit mAb
HLA-DR	IRS154MS	Human	Mouse mAb
HNF-4-alpha	IRS155RB	Human	Rabbit mAb
Hormone sensitive lipase / HSL	IRS157RB	Human	Rabbit mAb
Human TNF alpha	IRS040	Human	Rabbit mAb
Id1	IRS159RB	Human	Rabbit mAb
IDO	IRS045	Human	Rabbit mAb
IL3RA / CD123	IRS104RB	Human	Rabbit mAb
IL-6	IRS160RB	Human	Rabbit mAb
Insulin	IRS161RB	Human	Rabbit mAb
Ki67	IRS036	Human	Rabbit mAb

Product name	Catalog#	Reactivity	Antibody type
LAG-3	IRS020	Human	Rabbit mAb
Laminin beta 1	IRS164RB	Human	Rabbit mAb
LYVE1	IRS256RB	Human	Rabbit mAb
Mast Cell Tryptase	IRS041	Human	Rabbit mAb
MHC class I	IRS171RB	Human	Rabbit mAb
MMP-9	IRS172RB	Human	Rabbit mAb
MUC1	IRS174MS	Human	Mouse mAb
MUC2	IRS175RB	Human	Rabbit mAb
Myeloperoxidase	IRS037	Human	Rabbit mAb
NCAM1 / CD56	IRS026	Human	Rabbit mAb
NPHS2	IRS182RB	Human	Rabbit mAb
Osteopontin	IRS200RB	Human	Rabbit mAb
pan Cytokeratin	IRS010	Human	Mouse mAb
Pan-Cadherin	IRS285MS	Human	Mouse mAb
PD1	IRS190MS	Human	Mouse mAb
PDGFR beta	IRS038	Human	Rabbit mAb
PD-L1	IRS009	Human	Rabbit mAb
Podoplanin	IRS194RB	Human	Rabbit mAb
RAGE	IRS195RB	Human	Rabbit mAb
RUNX2	IRS047	Human	Rabbit mAb
S100A9	IRS039	Human	Rabbit mAb
SLC12A1 / NKCC2	IRS181RB	Human	Rabbit mAb
smooth muscle Myosin heavy chain 11	IRS176RB	Human	Rabbit mAb
SOX2	IRS198RB	Human	Rabbit pAb
SOX9	IRS199RB	Human	Rabbit mAb
SST/Somatostatin 28	IRS197RB	Human	Rabbit mAb
Syndecan 1	IRS105RB	Human	Rabbit mAb
TAGLN	IRS202RB	Human	Rabbit mAb
TCF7	IRS204RB	Human	Rabbit mAb
TGF beta 1	IRS205RB	Human	Rabbit mAb
TIM 3	IRS077	Human	Rabbit mAb
TROP2	IRS208RB	Human	Rabbit mAb
TRP1	IRS211RB	Human	Rabbit mAb
TTF1	IRS042	Human	Rabbit mAb
Villin1	IRS213RB	Human	Rabbit mAb
Vimentin	IRS044	Human	Rabbit mAb
Von Willebrand Factor	IRS215RB	Human	Rabbit mAb

Product name	Catalog#	Reactivity	Antibody type
ZEB	IRS216RB	Human	Rabbit mAb
ACE	IRS086RB	Mouse	Rabbit mAb
Albumin	IRS087RB	Mouse	Rabbit mAb
alpha smooth muscle Actin	IRS048	Mouse	Rabbit mAb
Androgen receptor	IRS092RB	Mouse	Rabbit mAb
AQP1	IRS218RB	Mouse	Rabbit mAb
Aquaporin 2	IRS089RB	Mouse	Rabbit mAb
Aquaporin 5	IRS090RB	Mouse	Rabbit mAb
Arginase1	IRS082RB	Mouse	Rabbit mAb
beta Amyloid	IRS251RB	Mouse	Rabbit mAb
beta Amyloid 1-42	IRS247RB	Mouse	Rabbit mAb
Beta Catenin	IRS061	Mouse	Rabbit mAb
Calbindin	IRS221RB	Mouse	Rabbit mAb
Caveolin-1	IRS100RB	Mouse	Rabbit mAb
CD10	IRS222MS	Mouse	Mouse mAb
CD11c	IRS084	Mouse	Rabbit mAb
CD163	IRS109RB	Mouse	Rabbit pAb
CD19	IRS110RB	Mouse	Rabbit mAb
CD20	IRS114RB	Mouse	Rabbit pAb
CD3	IRS074	Mouse	Rabbit mAb
CD31	IRS075	Mouse	Rabbit mAb
CD34	IRS050	Mouse	Rabbit mAb
CD4	IRS051	Mouse	Rabbit mAb
CD44	IRS123RB	Mouse	Rabbit mAb
CD45R	IRS076	Mouse	Rat mAb
CD8	IRS083	Mouse	Rabbit pAb
c-Fos	IRS131RB	Mouse	Rabbit mAb
Chromogranin A	IRS223MS	Mouse	Mouse mAb
Cleaved Caspase-3	IRS227RB	Mouse	Rabbit pAb
COL1A1	IRS228RB	Mouse	Rabbit mAb
Collagen XVII	IRS138RB	Mouse	Rabbit mAb
CX3CR1	IRS250RB	Mouse	Rabbit mAb
Cytokeratin 1	IRS163RB	Mouse	Rabbit mAb
Cytokeratin 18	IRS224RB	Mouse	Rabbit mAb
Cytokeratin 19	IRS225RB	Mouse	Rabbit mAb
Desmin	IRS140RB	Mouse	Rabbit mAb
Doublecortin	IRS252RB	Mouse	Rabbit pAb

Product name	Catalog#	Reactivity	Antibody type
E-Cadherin	IRS229MS	Mouse	Mouse mAb
Endomucin	IRS141RB	Mouse	Rabbit pAb
F4/80	IRS052	Mouse	Rabbit mAb
F4/80	IRS143RT	Mouse	Rat mAb
FAM38A / PIEZO1	IRS257MS	Mouse	Mouse mAb
Fast Myosin Skeletal Heavy chain	IRS145RB	Mouse	Rabbit mAb
Fibronectin	IRS144RB	Mouse	Rabbit mAb
FOXA2	IRS146RB	Mouse	Rabbit mAb
FOXP3	IRS053	Mouse	Rabbit mAb
GFAP	IRS069	Mouse	Rabbit mAb
Glucagon	IRS230RB	Mouse	Rabbit mAb
Glutamine Synthetase	IRS231MS	Mouse	Mouse mAb
Granzyme B	IRS054	Mouse	Rabbit pAb
Heme Oxygenase 1 (HO-1)	IRS232RB	Mouse	Rabbit mAb
HLA-DQA1	IRS062	Mouse	Rabbit mAb
HNF-4-alpha	IRS055	Mouse	Rabbit mAb
Iba1	IRS068	Mouse	Rabbit mAb
IL-17A	IRS056	Mouse	Rabbit pAb
Insulin	IRS233RB	Mouse	Rabbit mAb
Ki67	IRS057	Mouse	Rabbit mAb
Laminin beta 1	IRS234RB	Mouse	Rabbit mAb
Loricrin	IRS165RB	Mouse	Rabbit mAb
LY6A	IRS166RB	Mouse	Rabbit mAb
Ly6g	IRS167RB	Mouse	Rabbit mAb
Lysozyme	IRS168RB	Mouse	Rabbit mAb
LYVE1	IRS169RB	Mouse	Rabbit mAb
Mannose Receptor (CD206)	IRS049	Mouse	Rabbit mAb
MAP2	IRS071	Mouse	Rabbit mAb
MUC2	IRS235RB	Mouse	Rabbit mAb
Myelin Basic Protein	IRS064	Mouse	Rabbit mAb
Myogenin	IRS177RB	Mouse	Rabbit pAb
Nestin	IRS065	Mouse	Rabbit mAb
NeuN	IRS178RB	Mouse	Rabbit mAb
NPHS2	IRS237RB	Mouse	Rabbit mAb
Occludin	IRS183RB	Mouse	Rabbit mAb
Olig2	IRS067	Mouse	Rabbit mAb
p21	IRS260RB	Mouse	Rabbit mAb

Product name	Catalog#	Reactivity	Antibody type
pan Cytokeratin	IRS188RB	Mouse	Rabbit mAb
Pan-Cadherin	IRS185RB	Mouse	Rabbit mAb
Pancreatic Polypeptide	IRS189RB	Mouse	Rabbit mAb
PAX6	IRS066	Mouse	Rabbit mAb
PD1	IRS191MS	Mouse	Mouse mAb
PDGFR beta	IRS058	Mouse	Rabbit mAb
PD-L1	IRS059	Mouse	Rabbit mAb
RAGE	IRS073	Mouse	Rabbit mAb
ROR alpha / RORA	IRS258RB	Mouse	Rabbit mAb
RUNX2	IRS238RB	Mouse	Rabbit mAb
S100A8+S100A9	IRS196RB	Mouse	Multi-rAb
SLC12A1 / NKCC2	IRS236RB	Mouse	Rabbit mAb
Slow Skeletal Myosin Heavy chain	IRS201RB	Mouse	Rabbit mAb
SOX2	IRS240RB	Mouse	Rabbit mAb
SST/Somatostatin 28	IRS239RB	Mouse	Rabbit mAb
TBR1	IRS070	Mouse	Rabbit mAb
TTF1	IRS063	Mouse	Rabbit mAb
Tyrosine Hydroxylase	IRS206RB	Mouse	Rabbit mAb
VE Cadherin	IRS212	Mouse	Goat pAb
Villin1	IRS243RB	Mouse	Rabbit mAb
Vimentin	IRS060	Mouse	Rabbit mAb
Von Willebrand Factor	IRS244RB	Mouse	Rabbit mAb
Wilms Tumor Protein	IRS072	Mouse	Rabbit mAb
ZEB	IRS245RB	Mouse	Rabbit mAb
ZO1	IRS217RB	Mouse	Rabbit mAb
GFP	IRS091	Species independent	Rabbit mAb
mCherry	IRS170MS	Species independent	Mouse mAb

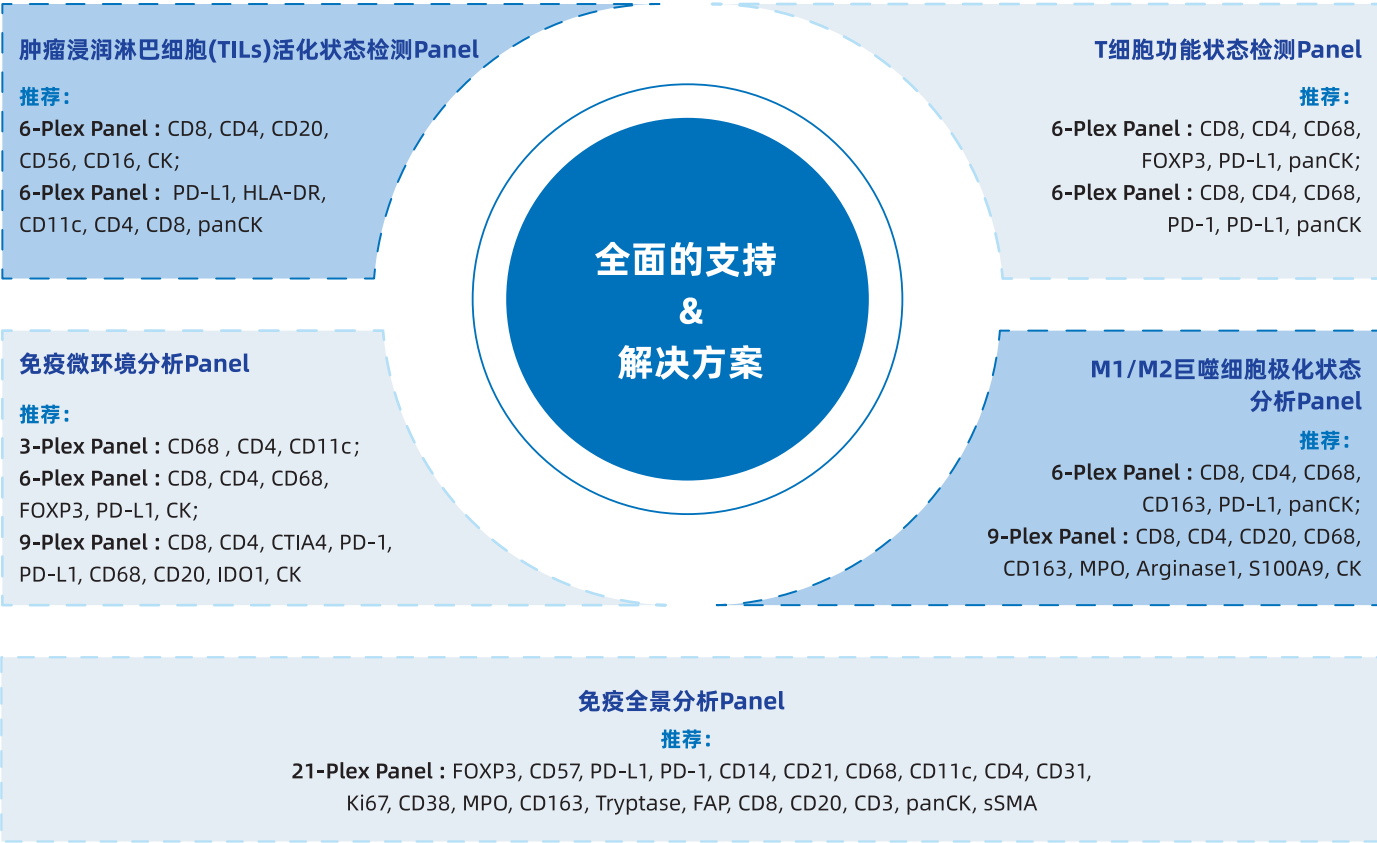
扫码详见更多“mIHC抗体”产品信息



充分验证的即用型Panel，提供mIHC整体解决方案，实现高特异性多靶点标记

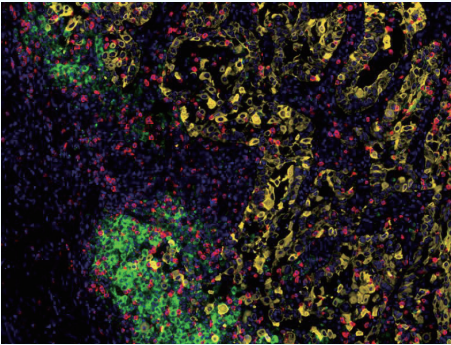
基于Cycinsight mTSA技术，我们提供一整套独立、充分验证的抗体Panel工具包，用于肿瘤免疫环境评估，及肿瘤免疫药物临床开发及转化研究过程中的关键类型细胞标记。此外，我们支持用户自主选择所需抗体，快速构建高效实验Panel，为肿瘤研究提供更全面的支持和解决方案。

产品特点



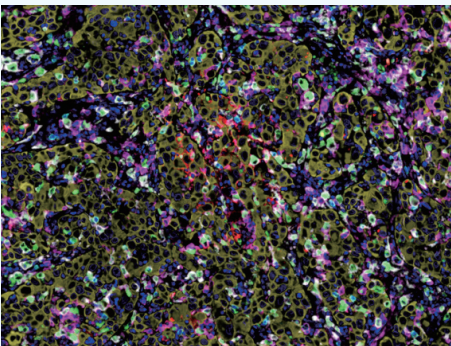
经典案例

Case 1：人肺鳞癌微环境中介导PD-1/PD-L1抑制的主要细胞来源分析（3-Plex Panel）



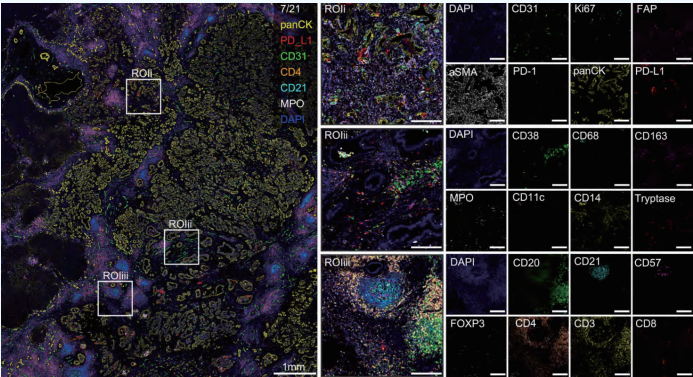
MESA Human PD-L1 Cytotoxic-Epithelial Panel | Catalog# IRSK3004
结果解读：该Panel可以标记PD-L1、CD8 T细胞和上皮细胞（panCK）。主要用于评估人肺鳞癌微环境中PD-L1表达及CD8浸润情况。

Case 2：人胆管癌免疫治疗耐药机制研究（6-Plex Panel）



MESA Human T/B Lymphocyte Panel | Catalog# IRSK6002
结果解读：该Panel可以标记PD-L1，巨噬细胞（CD68, CD163），T细胞（CD4, CD8）,以及上皮细胞（panCK）。主要用于评估人胆管癌微环境中PD-L1表达与免疫抑制（Treg）及巨噬细胞浸润的关系，同时分析CD4/CD8 T细胞分布，适用于免疫治疗反应预测。

Case 3：人肝内胆管癌免疫全景分析（21-Plex Panel）



MESA Human Pan-Immune Microenvironment 21 Marker Panel | Catalog# IRSK21001
结果解读：该Panel覆盖人免疫微环境中的主要功能细胞群及状态标记，包括淋巴细胞（FOXP3, CD4, CD8, CD20, CD21, CD38, CD57, et al.），髓系细胞（MPO, CD14, CD11c, CD68, CD163, Tryptase），间质细胞（CD31, FAP, αSMA），上皮/肿瘤细胞（panCK），增殖（Ki67）以及免疫检查点（PD-1, PD-L1）。能在一张切片上实现对人肝内胆管癌的免疫全景分析，对免疫治疗疗效预测、生物标志物发现及机制研究有重要价值。

热门抗体Panel推荐

Catalog#	Product name	Markers in Panel	Tissue Phenomics	Size
IRSK3001	MESA Human T/B Lymphocyte Panel	CD4, CD8, CD20	Helper T cell, Cytotoxic T cell, B cell	Up to 30 Slides
IRSK3002	MESA Human Macrophage-Dendritic-Epithelial Panel	CD68, CD11c, panCK	Total macrophage, DC, Epithelial cell	Up to 30 Slides
IRSK3003	MESA Human Macrophage-Tcell-Dendritic Panel	CD68, CD4, CD11c	Total macrophage, DC, Helper T cell	Up to 30 Slides
IRSK3004	MESA Human PD-L1 Cytotoxic-Epithelial Panel	PD-L1, CD8, panCK	Immune Checkpoint, Cytotoxic T cell, Epithelial cell	Up to 30 Slides
IRSK3005	MESA Human T/B-Epithelial Panel 1	CD8, CD20, panCK	Cytotoxic T cell, B cell, Epithelial cell	Up to 30 Slides
IRSK3006	MESA Human T/B-Epithelial Panel 2	CD8, CD20, CK19	Cytotoxic T cell, B cell, Epithelial cell	Up to 30 Slides
IRSK3007	MESA Human Vascular-Macrophage Panel	CD31, CD68, CD163	Vascular endothelial cell, Total macrophage, M2 macrophage	Up to 30 Slides
IRSK3008	MESA Human Stromal-Epithelial-Myofibroblast Panel	FAP, panCK, αSMA	Stromal cells, Epithelial cell, Myofibroblast	Up to 30 Slides
IRSK3009	MESA Human Vascular-Bcell-Epithelial Panel	CD31, CD20, panCK	Vascular endothelial cell, B cell, Epithelial cell	Up to 30 Slides
IRSK6001	MESA Human T/B Lymphocyte Panel	PD-L1, FOXP3, CD68, panCK, CD4, CD8	Treg, Total macrophage, Epithelial cell, Helper T cell, Cytotoxic T cell, Immune Checkpoint	Up to 30 Slides
IRSK6002	MESA Human T/B Lymphocyte Panel	PD-L1, CD163, CD68, CD4, CD8, panCK	M2 macrophage, Total macrophage, Epithelial cell, Helper T cell, Cytotoxic T cell, Immune Checkpoint	Up to 30 Slides
IRSK6003	MESA Human PD1-PD-L1 Axis Panel	PD-L1, PD1, CD68, CD4, CD8, panCK	Total macrophage, Epithelial cell, Helper T cell, Cytotoxic T cell, Immune Checkpoint	Up to 30 Slides
IRSK6004	MESA Human Immune Checkpoint-Proliferation Panel	PD-L1, Ki67, CD68, CD4, CD8, panCK	Total macrophage, Cell proliferation, Helper T cell, Cytotoxic T cell, Immune Checkpoint	Up to 30 Slides
IRSK6005	MESA Human Immune Checkpoint-Antigen Presentation Panel	PD-L1, HLA-DR, CD11c, CD4, CD8, panCK	Epithelial cell, DC, APC, Helper T cell, Cytotoxic T cell, Immune Checkpoint	Up to 30 Slides
IRSK21001	MESA Human Pan-Immune Microenvironment 21 Marker Panel	FOXP3, CD57, PD-L1, PD-1, CD14, CD21, CD68, CD11c, CD4, CD31, Ki67, CD38, MPO, CD163, Tryptase, FAP, CD8, CD20, CD3, panCK, αSMA	Lymphoid Cell , Myeloid cell, Mesenchymal cell, Epithelial/Tumor, Cell proliferation	Up to 30 Slides



TSA染色试剂盒

灵活兼容、检测灵敏度高、实验流程简化高效

基于CyclInsight mTSA技术，我们提供的TSA染色试剂盒具备信噪比高、灵活兼容的显著优势。在不同的抗体组合，实验场景及成像系统中，均可帮助客户得到可重复的实验结果。

灵活兼容

信号倍增

高效省时

简单经济

温和友好

一抗种属无限制，自由搭配，灵活实验

荧光强度远超传统IF染色，轻松标记低丰度靶标

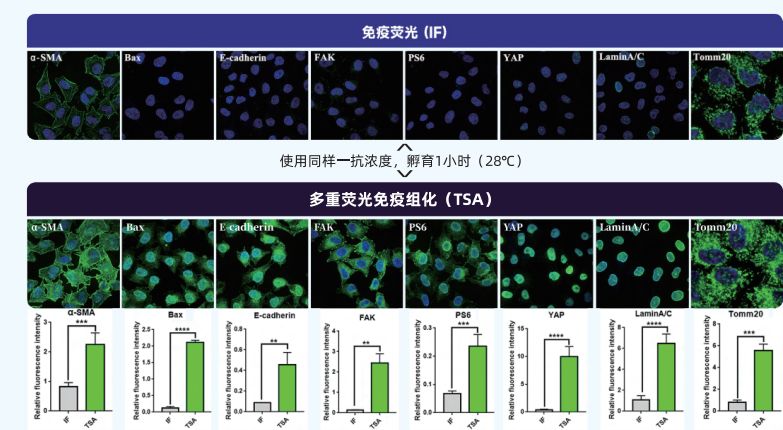
一二抗孵育分别仅需20分钟，1天完成4色标记

一抗用量低，技术无门槛，兼容常见成像设备

适用于石蜡切片、细胞爬片、冰冻切片等样本类型

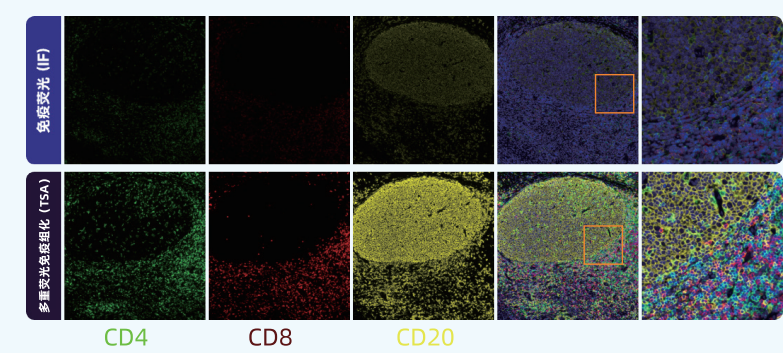
	Catalog#	Product name	Product Specifications	Tested Application
TSA Staining Kits	900801	IRISKitCmTSA Kit(4C, 1 Rabbit+1 Mouse+1 Rat)	20 T	mIHC
	900802	IRISKitCmTSA Kit(4C, 2 Rabbits+1 Mouse)	20 T	mIHC
	900803	IRISKitCmTSA Kit(4C, 1 Rabbit+2 Mice)	20 T	mIHC
	900804	IRISKitCmTSA Kit(4C, 2 Rabbits+1Rat)	20 T	mIHC
	900805	IRISKitCmTSA Kit(4C, 1 Rabbit+2 Rats)	20 T	mIHC
	900806	IRISKitCmTSA Kit(4C, 2 Mice+1 Rat)	20 T	mIHC
	900807	IRISKitCmTSA Kit(4C, 1 Mouse+2 Rats)	20 T	mIHC
	900808	IRISKitCmTSA Kit(4C, 3 Rabbits)	20 T	mIHC
	900809	IRISKitCmTSA Kit(4C, 3 Mice)	20 T	mIHC
	900810	IRISKitCmTSA Kit(4C, 3 Rats)	20 T	mIHC
Essential Support Products	900402	IRISKit®HyperView Advanced Ab Stripping Kit	190 mL	mIHC
	900102	IRISKit®HyperView Quench Buffer	145 mL	mIHC
	900103	IRISKit®HyperView Quench Buffer	85 mL	mIHC

与传统IF相比，TSA染色显著增强荧光信号 — Hela细胞样本



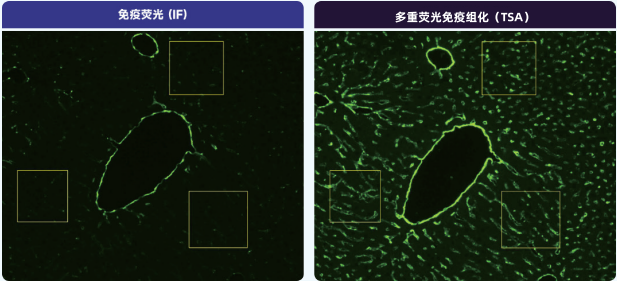
与传统IF比较，在相同实验条件下，使用TSA染色试剂盒标记Hela细胞多种常见膜蛋白、核蛋白、转录因子，荧光信号可增强至5-100倍。

TSA荧光信号强度远高于传统IF — 人扁桃体三标四色



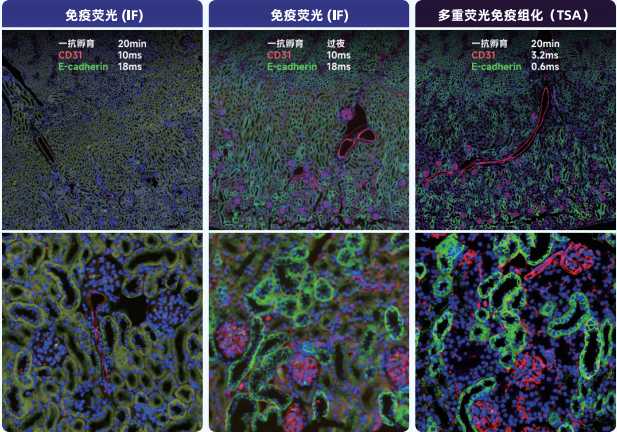
与传统IF比较，在相同实验条件下，使用TSA染色试剂盒标记人扁桃体CD4/8/20蛋白，荧光信号得到显著增强。且在较低一抗浓度条件下，TSA染色表现出高特异性，高灵敏度的显著优势。

与传统IF相比，TSA染色检测灵敏度更高，能捕捉低表达的荧光信号



与传统IF比较，在相同实验条件下，使用TSA染色试剂盒对肝脏低表达的CD31蛋白的检测灵敏度更高，更能有效标记肝脏完整的微血管网络。

与传统IF相比，TSA染色速度更快，荧光标记更强，曝光时间更短



与传统IF比较，使用TSA染色试剂盒标记肾脏CD31/E-Cadherin蛋白的一抗孵育时间只需要20min；且曝光时间为传统IF的1/30。

案例解析

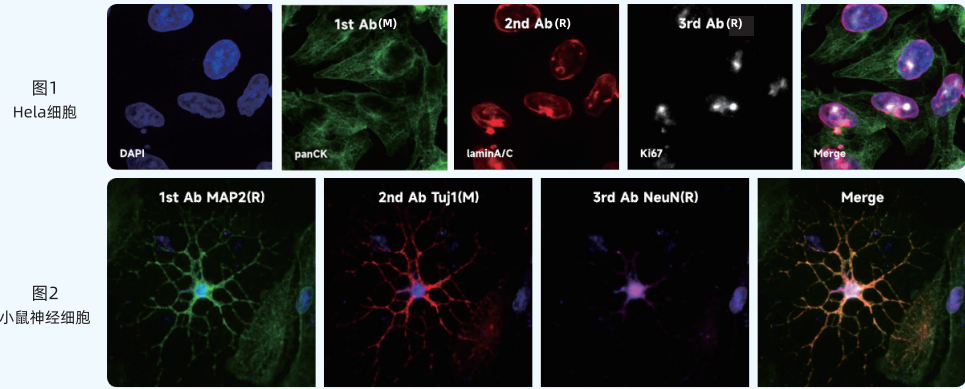
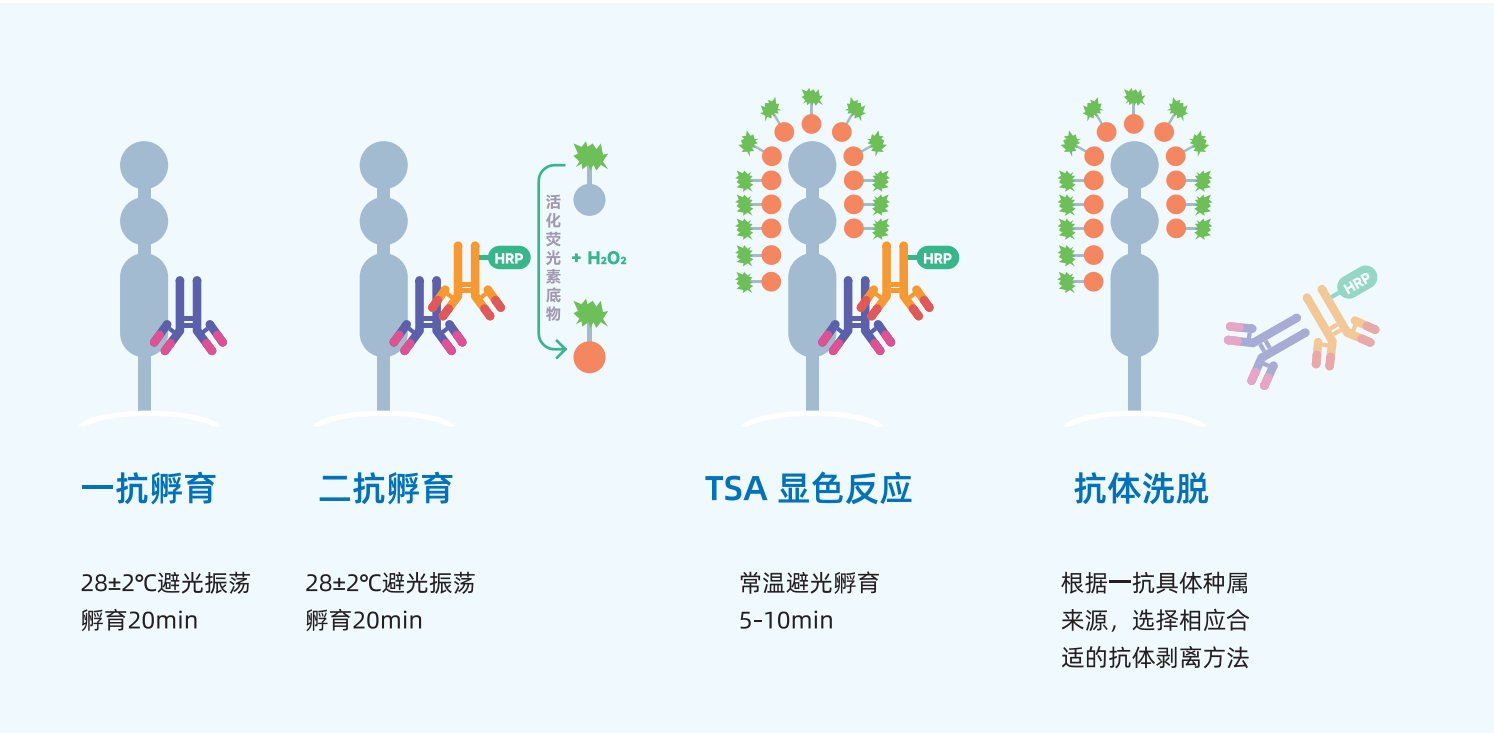


图1：使用TSA染色试剂盒（MH900205）依次对Hela细胞panCK、LaminA/C、Ki67蛋白进行mIHC分析；
图2：使用TSA染色试剂盒（MH900205）依次对小鼠神经细胞MAP2、Tuj1、NeuN蛋白进行mIHC分析。

TSA染色试剂盒的实验流程

单标染色TSA



多标染色mTSA



CmTSA光循环染色，单张样本2-30色无串扰标记

mIHC实验服务的众多优势

前所未有

高信噪比

稳定可靠

高质平价

数据全面

突破传统TSA光谱区间限制，轻松实现**2-30色无串扰**标记

淬灭样本自发背景**荧光**，获取超高信噪比图像数据

成熟验证**抗体库**+自定义靶标，提供试染客观验证

高质量严谨交付，合理计费，持续共赢

超多通道**全景成像**原始数据，支持多维度分析

mIHC实验服务列表 — 技术创新 | 高效服务 | 全面分析

FFPE石蜡切片 超多标染色成像	接收蜡块、石蜡切片，自发背景荧光淬灭，单张样本30标以内CmTSA无串扰染色成像。
TMA组织芯片 超多标染色成像	温和抗体洗脱，自发背景荧光淬灭，单张芯片30标以内CmTSA无串扰染色成像。
3D立体组织 超多标染色成像	开创性技术，可实现厚度500μm内新鲜组织或石蜡包埋组织块1-8标mIHC 3D染色成像。
背景荧光淬灭	淬灭石蜡切片样本自发荧光，获取无背景荧光成像数据。
数据分析	图像配准、细胞分割、单指标阳性、共表达阳性、组织分型、细胞密度等基础及高阶分析。