Product Datasheet

Cytokeratin 18 Rabbit mAb

Catalog No: #48696

Package Size: #48696-1 50ul #48696-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

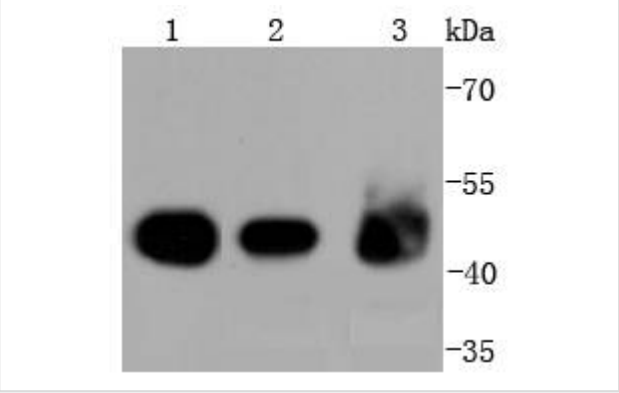
Description

Product Name	Cytokeratin 18 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SZ80-07
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	Cell proliferation inducing gene 46 protein antibody Cell proliferation inducing protein 46 antibody Cell proliferation-inducing gene 46 protein antibody CK 18 antibody CK-18 antibody CK18 antibody CYK 18 antibody CYK18 antibody Cytokeratin 18 antibody Cytokeratin endo B antibody Cytokeratin-18 antibody K 18 antibody K18 antibody K1C18_HUMAN antibody KA18 antibody Keratin 18 antibody Keratin 18, type I antibody Keratin D antibody keratin, type I cytoskeletal 18 antibody Keratin-18 antibody Krt18 antibody
Accession No.	Swiss-Prot#:P05783
Uniprot	P05783
GeneID	3875;
Calculated MW	48 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

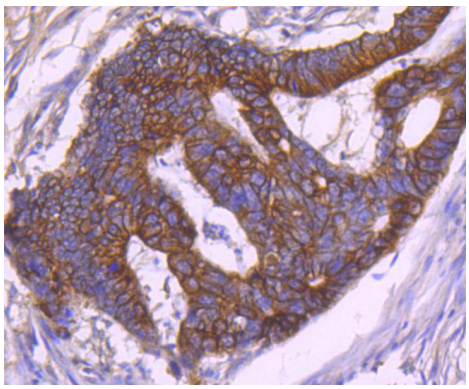
Application Details

WB: 1:10,000-1:50,000 IHC: 1:50-1:200 ICC: 1:100-1:500FC: 1:50-1:100

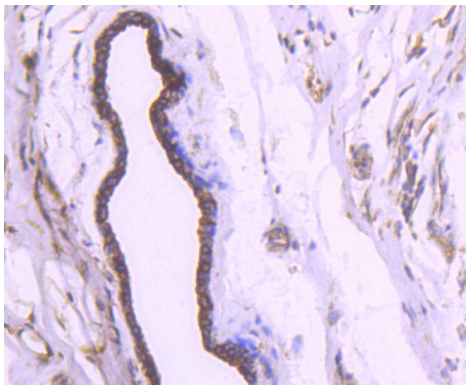
Images



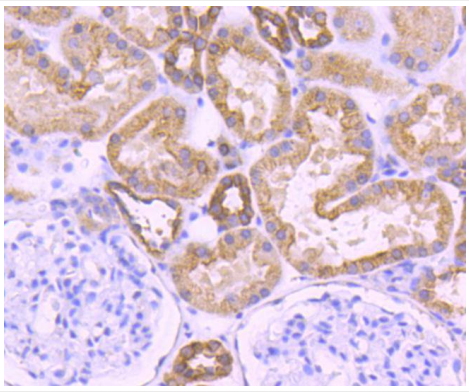
Western blot analysis of Cytokeratin 18 on different lysates using anti-Cytokeratin 18 antibody at 1/20,000 dilution.
Positive control: Lane 1: A431 Lane 2: Mouse colon
Lane 3: Mouse kidney



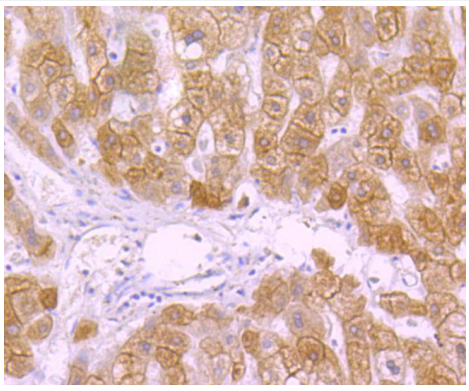
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Cytokeratin 18 antibody. Counter stained with hematoxylin.



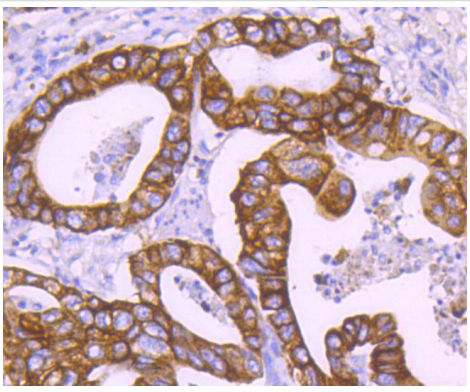
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Cytokeratin 18 antibody. Counter stained with hematoxylin.



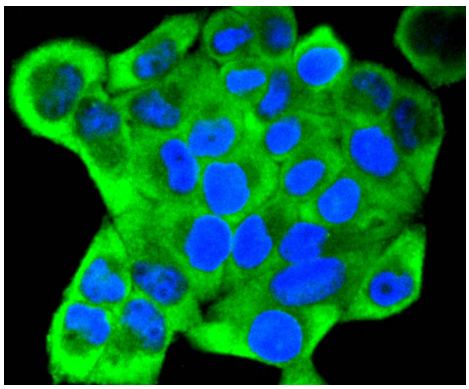
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-Cytokeratin 18 antibody. Counter stained with hematoxylin.



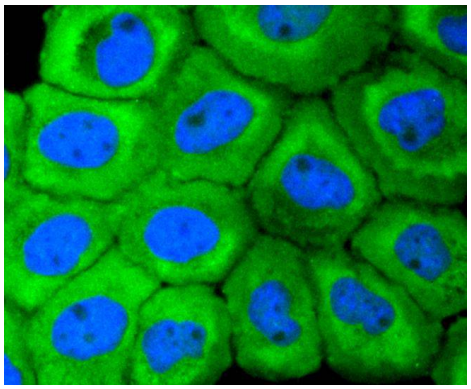
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Cytokeratin 18 antibody. Counter stained with hematoxylin.



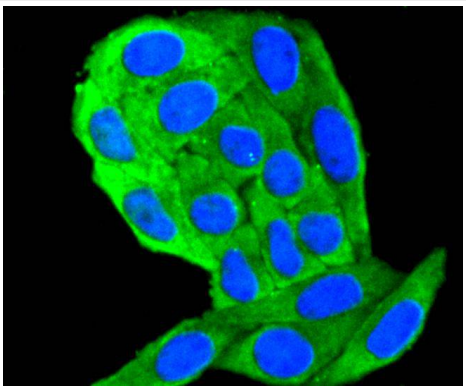
Immunohistochemical analysis of paraffin-embedded human gastric carcinoma tissue using anti-Cytokeratin 18 antibody. Counter stained with hematoxylin.



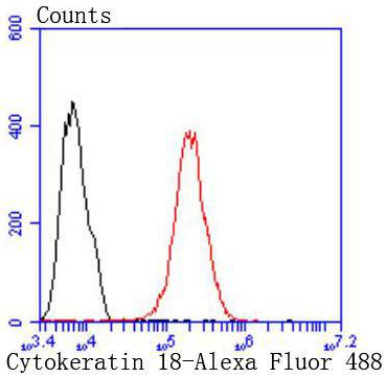
ICC staining Cytokeratin 18 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cytokeratin 18 in A431 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cytokeratin 18 in HepG2 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of MCF-7 cells with Cytokeratin 18 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody

Background

Cytokeratins comprise a diverse group of intermediate filament proteins (IFPs) that are expressed as pairs in both keratinized and non-keratinized epithelial tissue. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. Cytokeratins have been found to be useful markers of tissue differentiation which is directly applicable to the characterization of malignant tumors. For example, Cytokeratins 10 and 13 are expressed highly in a subset of squamous cell carcinomas while Cytokeratin 18 is expressed in a majority of adenocarcinomas and basal cell carcinomas. Cytokeratin 18 contains two major phosphorylation sites on Ser 33 and Ser 52. Phosphorylation of Ser 18 is essential for the association of Cytokeratin 18 with 14-3-3 proteins and is involved in keratin organization and distribution.

References

Note: This product is for in vitro research use only