Cytokeratin 7 Rabbit mAb

Catalog No: #48899

Package Size: #48899-1 50ul #48899-2 100ul

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

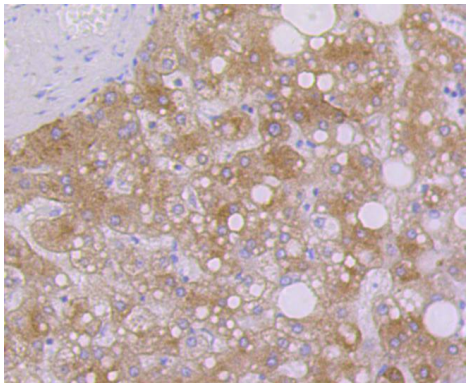
Description

Product Name	Cytokeratin 7 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST50-05
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Human
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	CK 7 antibody CK-7 antibody CK7 antibody Cytokeratin 7 antibody Cytokeratin-7 antibody D15Wsu77e antibody K2C7 antibody K2C7_HUMAN antibody K7 antibody Keratin 7 antibody Keratin 7, type II antibody Keratin type II cytoskeletal 7 antibody Keratin, 55K type II cytoskeletal antibody Keratin, simple epithelial antibody Keratin, simple epithelial type I, K7 antibody Keratin, type II cytoskeletal 7 antibody Keratin-7 antibody Krt2-7 antibody KRT7 antibody MGC11625 antibody MGC129731 antibody MGC3625 antibody Sarcolectin antibody SCL antibody Type II mesothelial keratin K7 antibody Type-II keratin Kb7 antibody
Accession No.	Swiss-Prot#:P08729
Calculated MW	51 kDa
SDS-PAGE MW	51 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

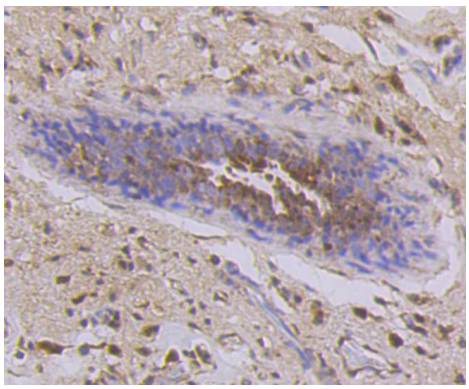
Application Details

WB: 1:1,000-1:2,000 IHC: 1:50-1:200 ICC: 1:50-1:200FC: 1:50-1:100

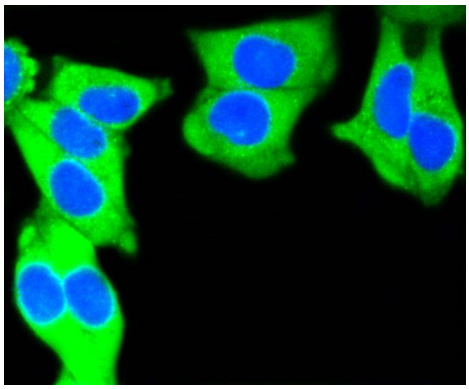
Images



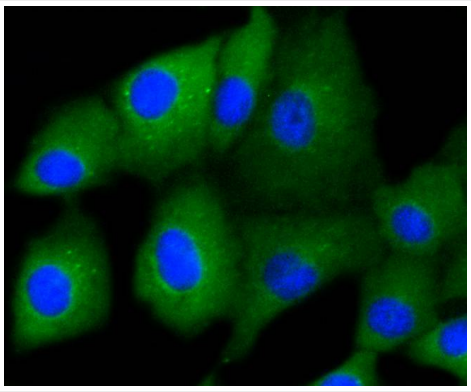
Immunohistochemical analysis of paraffin-embedded human liver tissue using anti-Cytokeratin 7 antibody. Counter stained with hematoxylin.



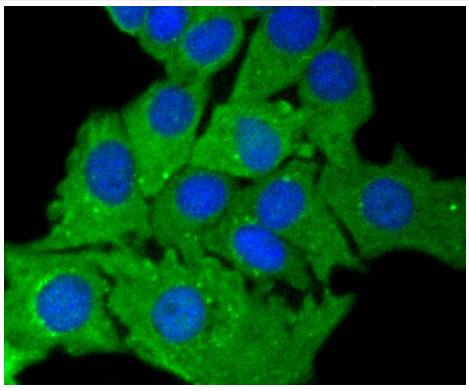
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-Cytokeratin 7 antibody. Counter stained with hematoxylin.



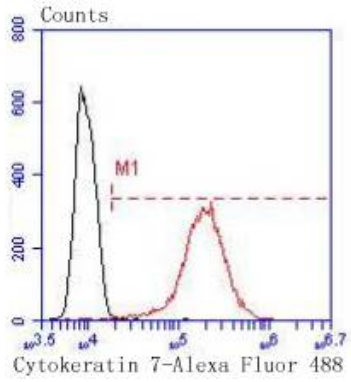
ICC staining Cytokeratin 7 in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



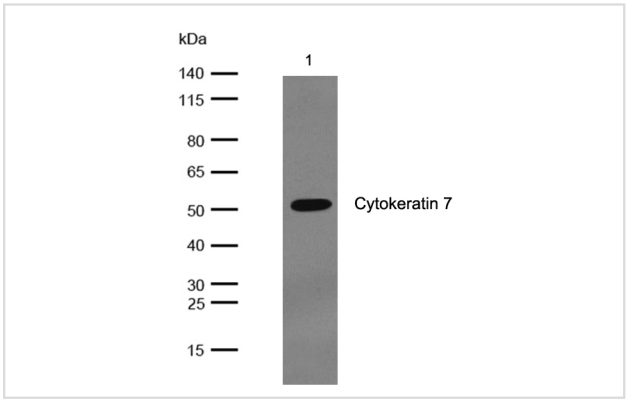
ICC staining Cytokeratin 7 in A549 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



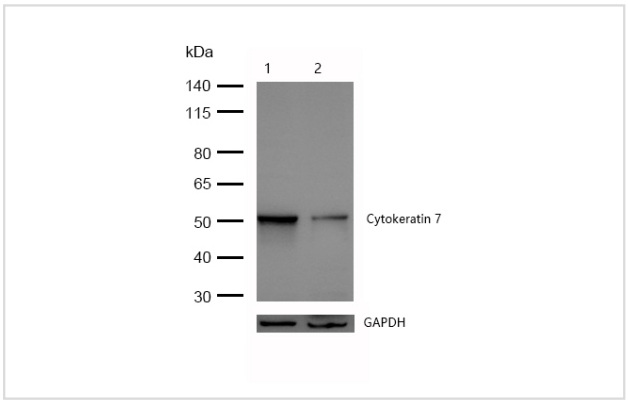
ICC staining Cytokeratin 7 in BT-20 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Hela cells with Cytokeratin 7 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.



All lanes: Cytokeratin 7 Rabbit mAb at 1/1k dilutionLane 1 : T47 D whole cell lysates Lysates/proteins at 20 µg per lane.SecondaryAll lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilutionPredicted band size: 51 kDa Observed band size: 51 kDaExposure time: 4 seconds



All lanes:Cytokeratin 7 Rabbit mAb at 1/1k dilutionLane 1 : Wild-type Hela cell lysateLane 2 : Cytokeratin 7 knockdown Hela cell lysateLysates/proteins at 20 µg per lane.

Background

Cytokeratins comprise a diverse group of intermediate filament proteins (IFPs) that are expressed as pairs in both keratinized and non-keratinized epithelial tissue, where they constitute up to 85% of mature keratinocytes in the vertebrate epidermis. Cytokeratins play a critical role in differentiation and tissue specialization and function to maintain the overall structural integrity of epithelial cells. The a-helical coiled-coil dimers associate laterally end-to-end to form 10 nm diameter filaments. Cytokeratins are useful markers of tissue differentiation and, in addition, they aid in the characterization of malignant tumors. Cytokeratin 7 (also known as sarcolectin) agglutinates normal and transformed cells with a high affinity for simple sugars. Cytokeratin 7 also inhibits the synthesis of interferon-dependent secondary proteins thus reversing the antiviral effect of interferon induction and restoring cells to their status ad primum. In normal and transformed cells, Cytokeratin 7 localizes to the membrane.

References

1. Petrosyan, A. et al. 2015. Keratin 1 plays a critical role in golgi localization of core 2 N-acetylglucosaminyltransferase M via interaction with its cytoplasmic tail. The Journal of biological chemistry. 290: 6256-69. 2. Loyola, AM. et al. 2015. Adenoid ameloblastoma: clinicopathologic description of five cases and systematic review of the current knowledge. Oral Surg Oral Med Oral Pathol Oral Radiol. 120: 368-77.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.