CD44 Rabbit mAb

Catalog No: #48911

Package Size: #48911-1 50ul #48911-2 100ul

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

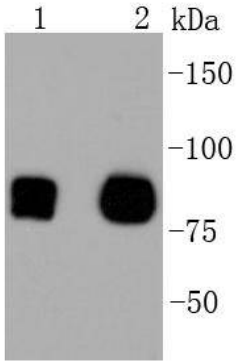
Description

Product Name	CD44 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	ST57-03
Purification	ProA affinity purified
Applications	WB, IHC, FC
Species Reactivity	Human
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	LHR antibody BA-1 antibody CD 44 antibody CD44 antibody CD44 antigen antibody CD44 molecule (Indian blood group) antibody CD44 molecule antibody CD44_HUMAN antibody CDw44 antibody Cell surface glycoprotein CD44 antibody chondroitin sulfate proteoglycan 8 antibody CSPG8 antibody ECMR-III antibody Epican antibody Extracellular matrix receptor III antibody GP90 lymphocyte homing/adhesion receptor antibody HCELL antibody hematopoietic cell E- and L-selectin ligand antibody Heparan sulfate proteoglycan antibody Hermes antigen antibody homing function and Indian blood group system antibody HSA antibody HUTCH-I antibody HUTCH1 antibody Hyaluronate receptor antibody IN antibody MC56 antibody MDU2 antibody MDU3 antibody MGC10468 antibody MIC4 antibody MUTCH1 antibody PGP-1 antibody PGP-I antibody PGP1 antibody Phagocytic glycoprotein 1 antibody Phagocytic glycoprotein I antibody Soluble CD44 antibody
Accession No.	Swiss-Prot#:P16070
Calculated MW	82 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

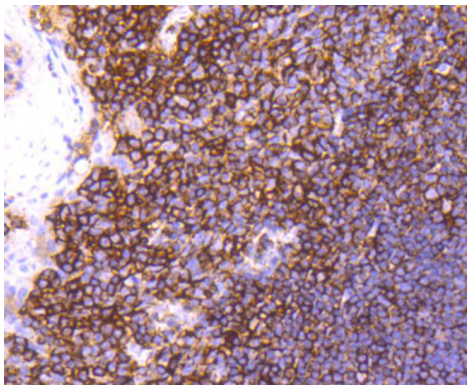
Application Details

WB: 1:1,000-5,000IHC:1:50-1:200 FC: 1:50-1:100

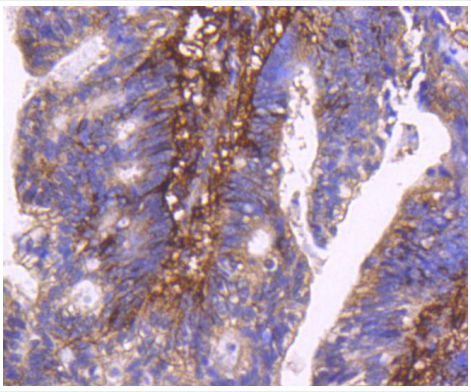
Images



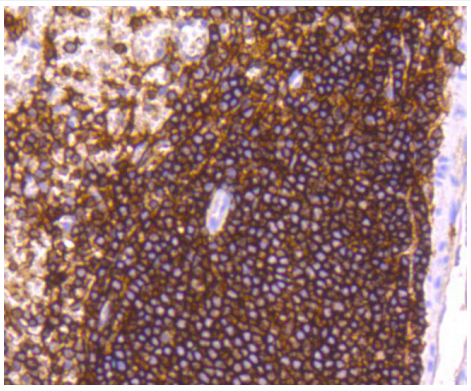
Western blot analysis of CD44 on different lysates using anti-CD44 antibody at 1/1,000 dilution. Positive control: Lane 1: Hela Lane 2: Jurkat



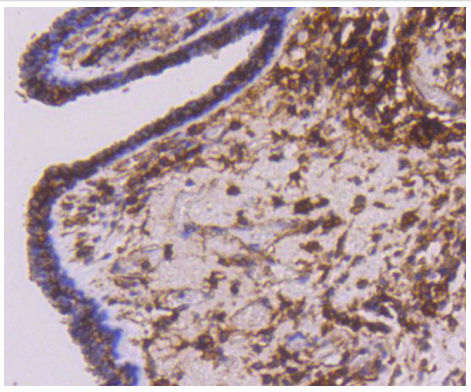
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD44 antibody. Counter stained with hematoxylin.



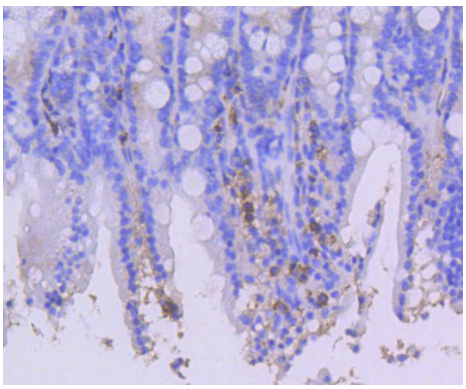
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-CD44 antibody. Counter stained with hematoxylin.



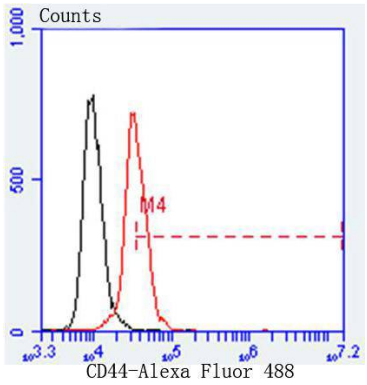
Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-CD44 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-CD44 antibody. Counter stained with hematoxylin.



Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-CD44 antibody. Counter stained with hematoxylin.



Flow cytometric analysis of Hela cells with CD44 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

Cell adhesion molecules (CAMs) are a family of closely related, cell surface glycoproteins that are involved in cell-cell interactions and are thought to play an important role in embryogenesis and development. HCAM, also known as CD44, LHR, MDU2, MDU3, MIC4, Pgp1, HCELL, MUTCH-I or ECMR-III, is a 742 amino acid single-pass type I membrane protein that is involved in hematopoiesis, lymphocyte activation and tumor metastasis. Functioning as a receptor for hyaluronic acid (HA) and interacting with ligands such as osteopontin (OPN), HCAM mediates both cell-cell and cell-matrix interactions, thereby playing an essential role in cell adhesion and cell migration. HCAM contains one Link domain and, due to alternative splicing events, is expressed as multiple isoforms, some of which are designated CD44R, CDw44, CD44S, CD44H (hematopoietic) and CD44E (epithelial). While most of the HCAM splice varients are expressed in tissues throughout the body, one specific isoform, namely CD44H, is expressed at high levels in cancer tissue, suggesting an important role for the CD44H splice varient in tumor progression.

References

1. Chen Z et al. Stem cell protein Piwil1 endowed endometrial cancer cells with stem-like properties via inducing epithelial-mesenchymal transition. BMC Cancer 15:811 (2015). 2. Collet B et al. Proteomic analysis underlines the usefulness of both primary adherent and stem-like cell lines for studying proteins involved in human glioblastoma. J Proteomics 110C:7-19 (2014).

Published Papers

el at., Longitudinal plasma proteome profiling reveals the diversity of biomarkers for diagnosis and cetuximab therapy response of colorectal cancer. In Nat Commun on 2024 Feb 1 by Yan Li, Bing Wang,et al..PMID:38302471, , (2024)

PMID:38302471

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