

Anti-CD44 Antibody (5M235)

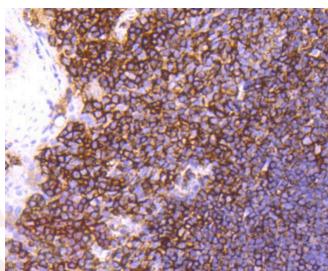
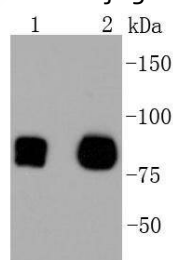
Product Details

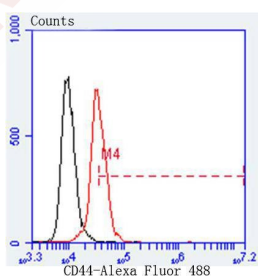
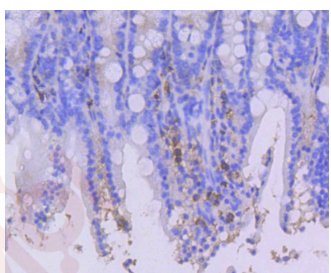
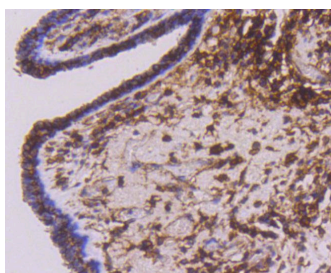
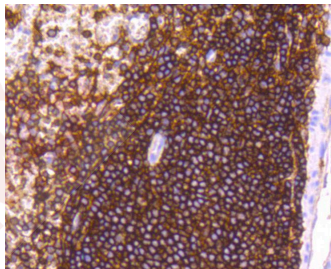
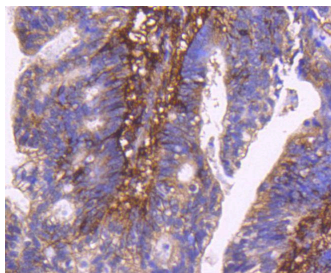
Ig Type:	IgG
Reactivity:	Human
Conjugation:	Unconjugated
Molecular Weight:	Theoretical: 82 kDa.
Clone:	5M235
Purification:	ProA affinity purified

Applications

Verified Activity:

1. 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.
2. Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-CD44 antibody. Counter stained with hematoxylin.
3. Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-CD44 antibody. Counter stained with hematoxylin.
4. Immunohistochemical analysis of paraffin-embedded human spleen tissue using anti-CD44 antibody. Counter stained with hematoxylin.
5. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-CD44 antibody. Counter stained with hematoxylin.
6. Immunohistochemical analysis of paraffin-embedded mouse colon tissue using anti-CD44 antibody. Counter stained with hematoxylin.
7. 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.





Application: FCM,IHC,WB

Recommended WB: 1:1000-5000; IHC: 1:50-200; FCM: 1:50-100

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen:	Recombinant Protein
Uniprot ID:	P16070
Synonyms:	MC56;ECMR-III;CD44 molecule (Indian blood group);CSPG8;MDU3;Pgp1;HCELL;MDU2;CDW44;HUTCH-I;MIC4;LHR;IN

Research 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 variants 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 variant in tumor progression.

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