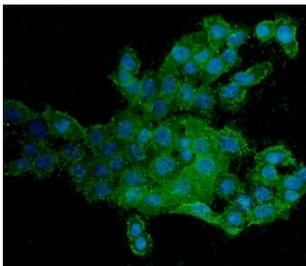


HCAM Antibody / CD44 [clone 7H7] (RQ6270)

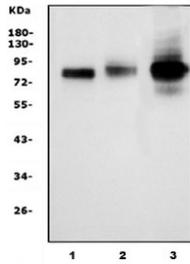
Catalog No.	Formulation	Size
RQ6270	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

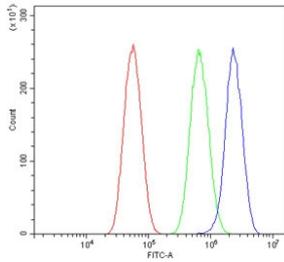
Availability	1-3 business days
Species Reactivity	Human, Rat
Format	Antigen affinity purified
Host	Mouse
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG2b
Clone Name	7H7
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose
UniProt	P16070
Localization	Cell membrane, cytoplasm
Applications	Western Blot : 1-2ug/ml Immunofluorescence : 5ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This HCAM antibody is available for research use only.



Immunofluorescent staining of FFPE human A431 cells with HCAM antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.



Western blot testing of 1) human HeLa, 2) human A549 and 3) rat C6 cell lysate with HCAM antibody. Predicted molecular weight ~81 kDa.



Flow cytometry testing of human U-87 MG cells with HCAM antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= HCAM antibody.

Description

CD44 is also known as HCAM, LHR and MC56. The protein encoded by this gene is a cell-surface glycoprotein involved in cell-cell interactions, cell adhesion and migration. It is a receptor for hyaluronic acid (HA) and can also interact with other ligands, such as osteopontin, collagens, and matrix metalloproteinases (MMPs). This protein participates in a wide variety of cellular functions including lymphocyte activation, recirculation and homing, hematopoiesis, and tumor metastasis. Transcripts for this gene undergo complex alternative splicing that results in many functionally distinct isoforms, however, the full length nature of some of these variants has not been determined. Alternative splicing is the basis for the structural and functional diversity of this protein, and may be related to tumor metastasis.

Application Notes

Optimal dilution of the HCAM antibody should be determined by the researcher.

Immunogen

Amino acids RFAGVFHVEKNGRYSISRTEAADLCKAF from the human protein were used as the immunogen for the HCAM antibody.

Storage

After reconstitution, the HCAM antibody can be stored for up to one month at 4oC. For long-term, aliquot and store at -20oC. Avoid repeated freezing and thawing.