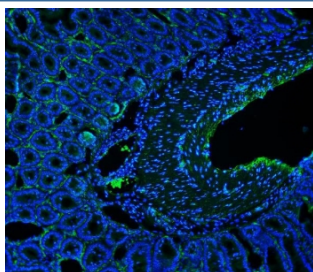


Cd146 Antibody / Mcam / Muc18 (RQ5987)

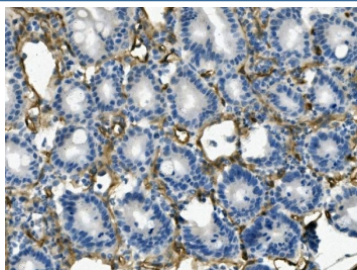
Catalog No.	Formulation	Size
RQ5987	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

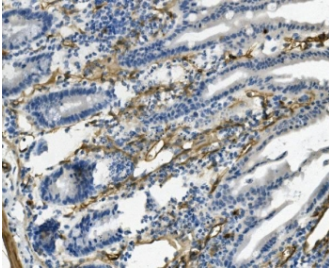
Availability	1-3 business days
Species Reactivity	Mouse, Rat
Format	Antigen affinity purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit IgG
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	Q8R2Y2
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Immunofluorescence : 2-4ug/ml Flow Cytometry : 1-3ug/million cells Direct ELISA : 0.1-0.5ug/ml
Limitations	This Mcam antibody is available for research use only.



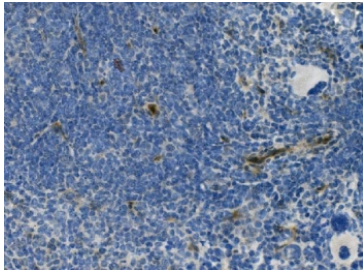
Immunofluorescent staining of FFPE mouse intestine with Cd146 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH8 EDTA for 20 min.



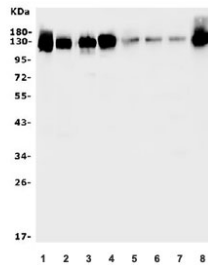
IHC staining of FFPE mouse intestine with Cd146 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



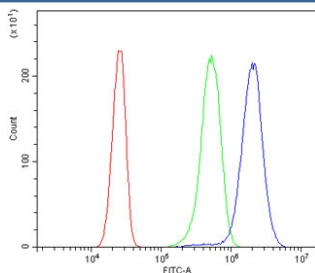
IHC staining of FFPE mouse intestine with Cd146 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



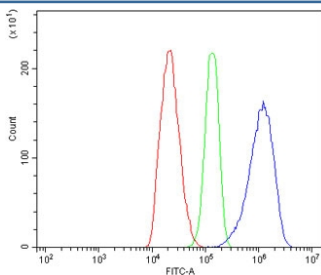
IHC staining of FFPE rat spleen with Cd146 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Western blot testing of rat 1) lung, 2) ovary, 3) PC-12 and mouse 4) lung, 5) spleen, 6) thymus, 7) kidney and 8) ovary lysate with Cd146 antibody. Expected molecular weight: 72-130 kDa depending on glycosylation level.



Flow cytometry testing of mouse Neuro-2a cells with Cd146 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Cd146 antibody.



Flow cytometry testing of rat C6 cells with Cd146 antibody at 1ug/million cells (blocked with goat sera); Red=cells alone, Green=isotype control, Blue= Cd146 antibody.

Description

In humans, the CD146 protein is encoded by the MCAM gene. It is mapped to 9; 9 A5.1. CD146 (cluster of differentiation 146) also known as the melanoma cell adhesion molecule (MCAM) or cell surface glycoprotein MUC18, is a 113kDa cell adhesion molecule currently used as a marker for endothelial cell lineage. MCAM functions as a receptor for laminin alpha 4, a matrix molecule that is broadly expressed within the vascular wall. Accordingly, MCAM is highly expressed by cells that are components of the blood vessel wall, including vascular endothelial cells, smooth muscle cells and pericytes. Its function is still poorly understood, but evidence points to it being part of the endothelial junction associated with the actin cytoskeleton. A member of the Immunoglobulin superfamily, it consists of five Ig domains, a transmembrane

domain, and a cytoplasmic region. It is expressed on chicken embryonic spleen and thymus, activated human T cells, endothelial progenitors such as angioblasts and mesenchymal stem cells, and strongly expressed on blood vessel endothelium and smooth muscle.

Application Notes

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

Immunogen

Recombinant mouse protein (amino acids E27-E621) was used as the immunogen for the Mcam antibody.

Storage

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