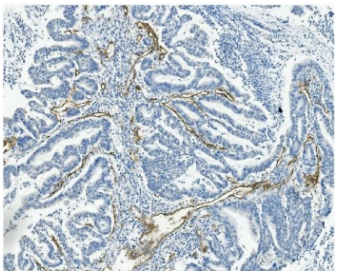
MCAM Antibody / CD146 [clone 4C12] (RQ5661)

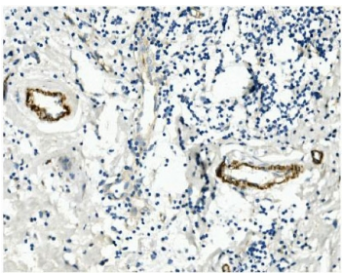
Catalog No.	Formulation	Size
RQ5661	0.5mg/ml if reconstituted with 0.2ml sterile DI water	100 ug

Bulk quote request

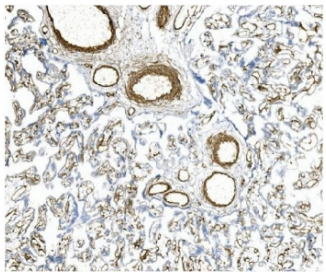
Availability	1-3 business days
Species Reactivity	Human
Format	Antigen affinity purified
Clonality	Monoclonal
Isotype	Mouse IgG2a
Clone Name	4C12
Purity	Affinity purified
Buffer	Lyophilized from 1X PBS with 2% Trehalose and 0.025% sodium azide
UniProt	P43121
Applications	Western Blot : 0.5-1ug/ml Immunohistochemistry : 1-2ug/ml Flow Cytometry : 1-3ug/million cells
Limitations	This MCAM antibody is available for research use only.



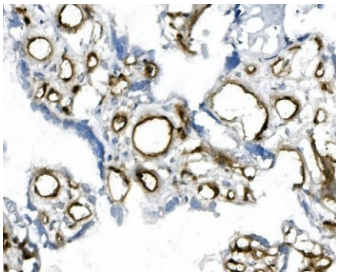
IHC staining of FFPE human rectal cancer with MCAM antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



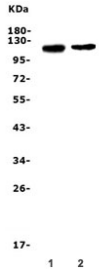
IHC staining of FFPE human breast cancer with MCAM antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



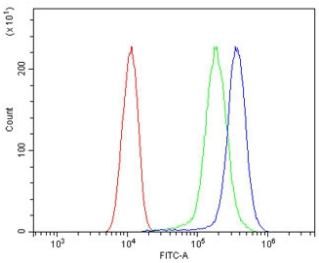
IHC staining of FFPE human placenta with MCAM antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



IHC staining of frozen human placenta with MCAM antibody.



Western blot testing of human 1) A375 and 2) HeLa lysate with MCAM antibody. Observed molecular weight 70-120 kDa depending on glycosylation level.



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

Description

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, a member of the immunoglobulin superfamily, is homologous to several cell adhesion molecules and is associated with tumor progression and the development of metastasis in human malignant melanoma. By radiation hybrid analysis, this gene is mapped to chromosome 11q23.3. MCAM has been demonstrated to appear on a small subset of T and B lymphocytes in the peripheral blood of healthy individuals. MCAM has been seen as a marker for mesenchymal stem cells isolated from multiple adult and fetal organs, and its expression may be linked to multipotency mesenchymal stem cells with greater differentiation potential express higher levels of MCAM on the cell surface.

Application Notes

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

Immunogen

Recombinant human protein (amino acids H59-A401) 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.