

## Anti-CD146/MCAM Antibody Picoband® (monoclonal, 4C12) FITC Conjugated

Catalog Number: M01683-3-FITC

### About MCAM

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.

### Overview

Product Name	Anti-CD146/MCAM Antibody Picoband® (monoclonal, 4C12) FITC Conjugated
Reactive Species	Human
Application	Recommended applications are based on the parent unconjugated antibody (Flow Cytometry, IHC, IHC-F, WB). Customers may select suitable applications according to their experimental needs.
Clonality	Monoclonal 4C12
Formulation	Each vial contains 50% glycerol, 0.9% NaCl, 0.2% Na <sub>2</sub> HPO <sub>4</sub> , 0.02% NaN <sub>3</sub> .
Storage Instructions	At -20°C for one year from date of receipt. Avoid repeated freezing and thawing. Protect from light.
Host	Mouse
Uniprot ID	P43121

### Technical Details

Immunogen	E.coli-derived human CD146 recombinant protein (Position: H59-A401). Human CD146 shares 73% amino acid (aa) sequence identity with both mouse and rat CD146.
Cross Reactivity	No cross-reactivity with other proteins.
Isotype	Mouse IgG2a
Form	Liquid
Concentration	0.5 mg/mL
Purification	Immunogen affinity purified.

Conjugate	FITC Excitation Wavelength: 495 nm Emission Wavelength: 525 nm
Suggested Dilutions	Optimal dilutions should be determined by end users.

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