

## Anti-CD146/MCAM Antibody-PE (8V819)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	PE
Clone:	8V819
Purification:	Protein A

### Applications

Verified Activity:	<ol style="list-style-type: none"><li>1. Profile of anti-CD146 reactivity on HeLa cells analyzed by flow cytometry.</li><li>2. Immunofluorescence staining of Human CD146 in Hela cells. Cells were fixed with 4% PFA, blocked with 10% serum, and incubated with Rabbit anti-Human CD146 monoclonal antibody (PE-conjugated, 10 µg/ml) at 4°C overnight, and counterstained with DAPI (blue). Positive staining was localized to plasma membrane.</li></ol>
Application:	FCM
Recommended	2 µl/Test, 0.1 mg/ml

### Properties

Stability & Storage:	Store at 2°C-8°C for 12 months, do not freeze. Keep away from direct sunlight. Sodium azide is toxic to cells and should be disposed of properly. Flush with large volumes of water during disposal.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen:	Recombinant Protein: Human CD146 protein (TMPY-01034)
Antigen Species:	Human
Synonyms:	MUC18;melanoma cell adhesion molecule;CD146

### Research Background

The CD146 antigen, also known as melanoma cell adhesion molecule (MCAM) and MUC18, is an integral membrane glycoprotein belonging to the immunoglobulin superfamily. CD146 contains the characteristic immunoglobulin-like domains (V-V-C2-C2-C2), a transmembrane region, and a short cytoplasmic tail. The CD146 expression is detected in endothelial cells in vascular tissue throughout the body and plays a role in cell adhesion, as well as in cohesion of the endothelial monolayer at intercellular junctions in vascular tissue. As a Ca<sup>2+</sup>-independent cell adhesion molecule involved in heterophilic cell to cell interactions and a surface receptor, CD146 triggers tyrosine phosphorylation of FYN and PTK2 and subsequently induced signal transduction, proteolysis, or immune recognition. This protein is also expressed predominantly on metastatic lesions and advanced primary tumors, and thus has been suggested to play an important role in tumor progression and the development of metastasis in certain human carcinomas.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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