

## Anti-CD146/MCAM Antibody (7J256)

### Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	7J256
Purification:	Protein A

### Applications

Verified Activity:	1. Immunohistochemical staining of formalin fixed, paraffin-embedded human stomach showing membrane staining of endothelial cells (red arrow), smooth muscle cells (black arrow) (1:200).
	2. Immunohistochemical staining of formalin fixed, paraffin-embedded human lymphonode showing membrane staining of endothelial cells (red arrow), smooth muscle cells (black arrow) (1:200).
	3. Immunohistochemical staining of formalin fixed, paraffin-embedded human kidney showing membrane staining of endothelial cells (red arrow) (1:200).
	4. Anti-CD146 rabbit monoclonal antibody at 1:500 dilution.
	-Lane A: Hela Whole Cell lysate.
	-Lysates/proteins at 30 µg per lane.
	-Secondary
	-Goat Anti-Rabbit IgG H&L (Dylight800) at 1/10000 dilution.
	-Developed using the Odyssey technique.
	-Performed under reducing conditions.
	-Predicted band size:72 kDa.
	-Observed band size:115 kDa
Application:	IHC-P,WB
Recommended	WB: 1:500-1:2000; IHC-P: 1:100-1:500

### Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles. Preservative-Free.
Shipping:	Shipping with blue ice.

### Antigen Details

Immunogen: Recombinant Protein: Human CD146 protein (TMPY-01034)

Antigen Species: Human

Synonyms: melanoma cell adhesion molecule;MUC18;CD146

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### 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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