

## CD146/MCAM Protein, Mouse (HEK293, His)

Cat. No.:	HY-P76201
Synonyms:	Cell surface glycoprotein MUC18; Gicerin; CD146; Muc18
Species:	Mouse
Source:	HEK293
Accession:	Q8R2Y2 (V24-V563)
Gene ID:	84004
Molecular Weight:	90-100 kDa.

### PROPERTIES

AA Sequence	<p> V P G E E K Q P V P    T P D L V E A E V G    S T A L L K C G P S    R A S G N F S Q V D  W F L I H K E R Q I    L I F R V H Q G K G    Q R E P G E Y E H R    L S L Q D S V A T L  A L S H V T P H D E    R M F L C K S K R P    R L Q D H Y V E L Q    V F K A P E E P T I  Q A N V V G I H V D    R Q E L R E V A T C    V G R N G Y P I P Q    V L W Y K N S L P L  Q E E E N R V H I Q    S S Q I V E S S G L    Y T L K S V L S A R    L V K E D K D A Q F  Y C E L S Y R L P S    G N H M K E S K E V    T V P V F Y P A E K    V W V E V E P V G L  L K E G D H V T I R    C L T D G N P Q P H    F T I N K K D P S T    G E M E E E S T D E  N G L L S L E P A E    K H H S G L Y Q C Q    S L D L E T T I T L    S S D P L E L L V N  Y V S D V Q V N P T    A P E V Q E G E S L    T L T C E A E S N Q    D L E F E W L R D K  T G Q L L G K G P V    L Q L N N V R R E A    G G R Y L C M A S V    P R V P G L N R T Q  L V S V G I F G S P    W M A L K E R K V W    V Q E N A V L N L S    C E A S G H P Q P T  I S W N V N G S A T    E W N P D P Q T V V    S T L N V L V T P E    L L E T G A E C T A  S N S L G S N T T T    I V L K L V T L T T    L I P D S S Q T T G    L S T L T V S P H T  R A N S T S T E K K    L P Q P E S K G V V </p>
Biological Activity	Measured by its binding ability in a functional ELISA. When Recombinant Mouse MCAM/CD146 is immobilized at 1 µg/mL, the concentration of Recombinant Mouse Galectin-3 that produces 50% of the optimal binding response is 0.4829 µg/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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## DESCRIPTION

### Background

CD146/MCAM, a versatile protein, assumes a crucial role in cell adhesion and the cohesion of the endothelial monolayer at intercellular junctions within vascular tissue. Its expression holds significance in facilitating interactions between melanoma cells and cellular components of the vascular system, potentially augmenting the hematogeneous spread of tumors. Beyond its involvement in tumor biology, CD146/MCAM is postulated to function as an adhesion molecule during embryonic development, particularly in neural crest cells. Acting as a surface receptor, it triggers tyrosine phosphorylation events involving FYN and PTK2/FAK1, accompanied by a transient increase in intracellular calcium concentration (By similarity).

**Caution: Product has not been fully validated for medical applications. For research use only.**

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