

Mouse Anti-MUC18/CD146/MCAM [MUC18/1130]: MC0862, MC0862RTU7

Intended Use: For Research Use Only

Description: CD146 (melanoma-associated antigen A32), also known as MUC18, is a transmembrane glycoprotein expressed on endothelial cells and is located at the intercellular junction where it plays a role in cell adhesion, and in the cohesion of the endothelial monolayer. CD146 labels endothelial cells, smooth muscle cells, intermediate trophoblast, subpopulation of T cells, and peripheral neuronal cells. In tumor, CD146 is expressed on tumor cells derived from peripheral nerves system, melanoma and clear cell sarcoma. CD146 has been used as a marker for intermediate trophoblast. It has been reported that CD146 is useful in differentiation of mesothelioma (CD146 positive) and reactive mesothelium (CD146 negative). CD146 is associated with tumor progression and the development of metastasis in human malignant melanoma.

Specifications

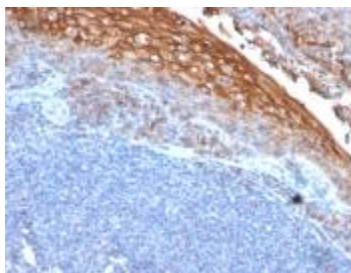
Clone: MUC18/1130
 Source: Mouse
 Reactivity: Human
 Isotype: IgG1k
 Localization: Membrane
 Formulation: Antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., IF
 Package:

Description	Catalog No.	Size
MUC18/CD146/MCAM Concentrated	MC0862	1 ml
MUC18/CD146/MCAM Prediluted	MC0862RTU7	7 ml

IHC Procedure*

Positive Control Tissue: Placenta, melanoma
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes using Pressure Cooker, or 30-60 minutes using water bath at 95°-99°C
 Incubation Time and Temp: 30-60 minutes @ RT
 Detection: Refer to the detection system manual

* Result should be confirmed by an established diagnostic procedure.



FFPE human tonsil stained with anti-MUC18 using DAB

References:

1. Immunohistochemical Expression of MCAM/CD146 in Canine Melanoma. Abou Asa S et al. J Comp Pathol. 2017.
2. ImmunoPET Imaging of CD146 in Murine Models of Intrapulmonary Metastasis of Non-Small Cell Lung Cancer. England CG et al. Mol Pharm. 2017.
3. CD146(+) cells are essential for kidney vasculature development. Halt KJ et al. Kidney Int. 2016.