

Mouse Anti-CD133/Prominin-1 (PROM1) [MD299]: MC0604, MC0604RTU7

Intended Use: For Research Use Only

Description: CD133, also known as prominin or AC133, is a marker frequently found on multipotent progenitor cells, including immature hematopoietic stem and progenitor cells. The protein has been extensively used as a stem cell marker for normal and cancerous tissues. May play a role in cell differentiation, proliferation and apoptosis. Binds cholesterol in cholesterol-containing plasma membrane microdomains and may play a role in the organization of the apical plasma membrane in epithelial cells. During early retinal development acts as a key regulator of disk morphogenesis. Involved in regulation of MAPK and Akt signaling pathways. In neuroblastoma cells suppresses cell differentiation such as neurite outgrowth in a RET-dependent manner.

Specifications:

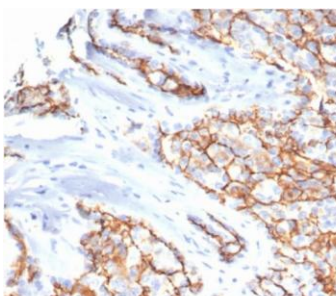
Clone: MD299
 Source: Mouse
 Isotype: IgG1
 Reactivity: Human
 Immunogen: Recombinant chimeric CD133 protein aa180-380 and aa612-765
 Localization: Secreted
 Formulation: Purified antibody in PBS pH7.4, containing BSA and ≤ 0.09% sodium azide (NaN3)
 Storage: Store at 2°- 8°C
 Applications: IHC, Flow Cyt., IF, WB
 Package:

Description	Catalog No.	Size
CD133/Prominin-1 (PROM1) Concentrated	MC0604	1 ml
CD133/Prominin-1 (PROM1) Prediluted	MC0604RTU7	7 ml

IHC Procedure*:

Positive Control Tissue: Colonic adenocarcinoma, kidney, muscle
 Concentrated Dilution: 50-200
 Pretreatment: Tris EDTA pH9.0, 15 minutes Pressure Cooker or 30-60 minutes 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 papillary renal cell carcinoma stained with anti-CD133 using DAB

References:

1. Functional links between gelatinase B/matrix metalloproteinase-9 and prominin-1/CD133 in diabetic retinal vasculopathy and neuropathy. Mohammad G, et al. Prog Retin Eye Res 43:76-91, 2014.
2. PDGFR-β (+) perivascular cells from infantile hemangioma display the features of mesenchymal stem cells and show stronger adipogenic potential in vitro and in vivo. Yuan SM, et al. Int J Clin Exp Pathol 7:2861-70, 2014.
3. Implication of tumor stem-like cells in the tumorigenesis of sporadic paraganglioma. Yang Y. Med Oncol 30:659, 2013.
4. The prognostic significance of aldehyde dehydrogenase 1A1 (ALDH1A1) and CD133 expression in early stage non-small cell lung cancer. Alamgeer M, et al. Thorax N/A:N/A, 2013.