

Anti-CD133 Antibody [D2-B1]

EM1701-28



Product Type:	Mouse monoclonal IgG1, primary antibodies
Species reactivity:	Human, Mouse
Applications:	IHC-P, ICC
Molecular Wt:	Predicted band size 97 kDa
Clone number:	D2-B1

Description: CD133 antigen also known as prominin-1 is a glycoprotein that in humans is encoded by the PROM1 gene. It is a member of pentaspan transmembrane glycoproteins (5-transmembrane, 5-TM), which specifically localize to cellular protrusions. While the precise function of CD133 remains unknown, it has been proposed to act as an organizer of cell membrane topology.

Immunogen: Synthetic peptide within human CD133 aa

Positive control: LOVO, N2A, human colon cancer tissue, human uterus tissue, mouse kidney tissue.

Subcellular location: Endoplasmic reticulum. Plasma membrane. Cell projection.

Database links: SwissProt: O43490 Human | O54990 Mouse

Recommended Dilutions:

ICC	1:100-1:500
IHC-P	1:50-1:200

Storage Buffer: 1*PBS (pH7.4), 0.2% BSA, 50% Glycerol. Preservative: 0.05% Sodium Azide.

Storage Instruction: Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

Purity: Immunogen affinity purified.

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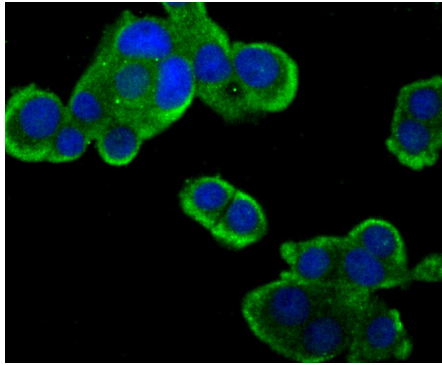


Fig1: ICC staining CD133 (green) in LOVO cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

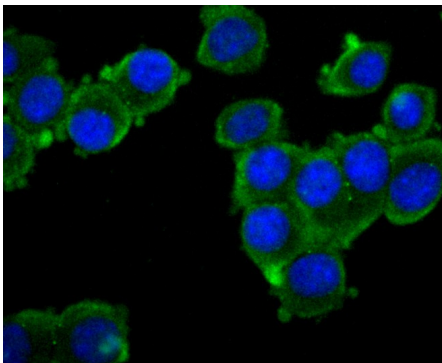


Fig2: ICC staining CD133 (green) in N2A cells. The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

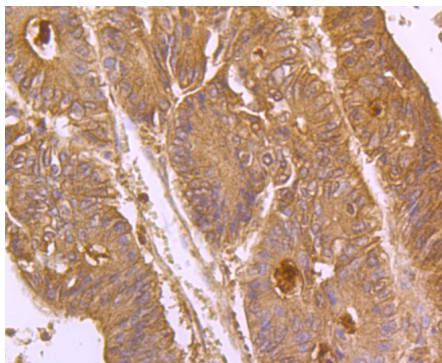


Fig3: Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-CD133 antibody. Counter stained with hematoxylin.

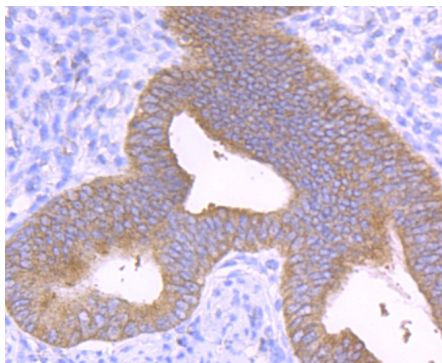


Fig4: Immunohistochemical analysis of paraffin-embedded human uterus tissue using anti-CD133 antibody. Counter stained with hematoxylin.

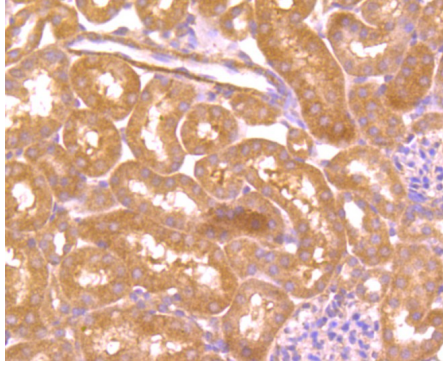


Fig5: Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-CD133 antibody. Counter stained with hematoxylin.

Note: All products are “FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE”.

Background References

1. Kim MY et al. Accumulation of low-dose BIX01294 promotes metastatic potential of U251 glioblastoma cells. *Oncol Lett* 13:1767-1774 (2017).
2. Xi G et al. Targeting CD133 improves chemotherapeutic efficacy of recurrent pediatric pilocytic astrocytoma following prolonged chemotherapy. *Mol Cancer* 16:21 (2017).