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#60577**CD133 (A8N6N) Mouse mAb**

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-L	H	Endogenous	Mouse IgG3	#O43490	8842

**Product Usage Information****Application**

Flow Cytometry (Live)

**Dilution**

1:50 - 1:200

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

CD133 (A8N6N) Mouse mAb recognizes endogenous levels of total CD133 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with cells overexpressing human CD133 protein.

**Background**

CD133, also known as Prominin, was first described as a cell surface marker recognized by monoclonal antibody AC133 on putative hematopoietic stem cells (1). Subsequent cDNA cloning indicated that CD133 is a five-transmembrane protein with a predicted molecular weight of 97 kDa. Due to heavy glycosylation, its apparent molecular weight is 130 kDa as determined by SDS-PAGE analysis (2). Besides blood stem cells, CD133 is expressed on and used to isolate other stem cells, including cancer stem cells (3-7). A deletion mutation in CD133 produces aberrant protein localization and may result in retinal degeneration in humans (8).

**Background References**

1. Yin, A.H. et al. (1997) *Blood* 90, 5002-12.
2. Miraglia, S. et al. (1997) *Blood* 90, 5013-21.
3. Handgretinger, R. et al. (2003) *Ann N Y Acad Sci* 996, 141-51.
4. Monzani, E. et al. (2007) *Eur J Cancer* 43, 935-46.
5. O'Brien, C.A. et al. (2007) *Nature* 445, 106-10.
6. Ricci-Vitiani, L. et al. (2007) *Nature* 445, 111-5.
7. Singh, S.K. et al. (2004) *Nature* 432, 396-401.
8. Maw, M.A. et al. (2000) *Hum. Mol. Genet.* 9, 27-34.

**Species Reactivity**

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

**Applications Key**

**FC-L:** Flow Cytometry (Live)

**Cross-Reactivity Key**

**H:** Human

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