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CD133 (A8N6N) Mouse mAb (Alexa Fluor® 488 Conjugate)

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-L	Reactivity: H	Sensitivity: Endogenous	Source/Isotype: Mouse IgG3	UniProt ID: #O43490	Entrez-Gene Id: 8842
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Product Usage Information	Application Flow Cytometry (Live)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	CD133 (A8N6N) Mouse mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of total CD133 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with cells overexpressing human CD133 protein.	
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated CD133 (A8N6N) Mouse mAb #60577.	
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	<ol style="list-style-type: none"> 1. Yin, A.H. et al. (1997) <i>Blood</i> 90, 5002-12. 2. Miraglia, S. et al. (1997) <i>Blood</i> 90, 5013-21. 3. Handgretinger, R. et al. (2003) <i>Ann N Y Acad Sci</i> 996, 141-51. 4. Monzani, E. et al. (2007) <i>Eur J Cancer</i> 43, 935-46. 5. O'Brien, C.A. et al. (2007) <i>Nature</i> 445, 106-10. 6. Ricci-Vitiani, L. et al. (2007) <i>Nature</i> 445, 111-5. 7. Singh, S.K. et al. (2004) <i>Nature</i> 432, 396-401. 8. Maw, M.A. et al. (2000) <i>Hum. Mol. Genet.</i> 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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