CD133 (A3G6K) Rabbit mAb



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Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 133	Source/Isotype: Rabbit IgG	UniProt ID: #O43490	Entrez-Gene Id: 8842
Product Usage Information		Application Western Blotting			Dilution 1:1000	
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 (A3G6K) Rabbit mAb recognizes endogenous levels of total CD133 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp562 of human CD133.				
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) <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>Fur 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).

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat

dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting

Cross-Reactivity Key H: Human

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