

## 64326

## CD133 (D2V8Q) XP® Rabbit mAb



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

<b>Applications:</b> W, IHC-Bond, IHC-P, IF-IC	Reactivity: H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 133	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O43490	Entrez-Gene Id: 8842
Product Usage Information		Application			Dilution	
Illioilliation		Western Blotting IHC Leica Bond			1:1000 1:200 - 1:800	
			tn. (Daraffin)	1:200 - 1:800		
		Immunohistochemistry (Paraffin) Immunofluorescence (Immunocytochemistry)			1:200 - 1:800	
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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.				
		For a carrier free (BSA and azide free) version of this product see product #51917.				
Specificity/Sensitivity		CD133 (D2V8Q) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total CD133 protein. This antibody is not sensitive to the glycosylation status of CD133.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the 1st extracellular loop of human CD133 protein. The epitope has been mapped to a region spanning amino acid residues 303-312.				
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 Rei	ferences	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 Reactivi	•	Consider we activity is d	-4i	n in at least one annrove	al annilastian (a.v.	atawa blati

**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 IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin) IF-IC:

Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key H: Human

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