

CD33 Antibody



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Applications: W, W-S, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 70-80	Source/Isotype: Rabbit	UniProt ID: #P20138	Entrez-Gene Id: 945
Product Usage Information	3	Application Western Blotting Simple Western™ Immunoprecipitation			Dilution 1:1000 1:10 - 1:50 1:100	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. <i>Do not aliquot the antibody.</i>				
Specificity/Sensitivity		CD33 Antibody recognizes endogenous levels of total CD33 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human CD33 protein. Antibodies are purified by peptide affinity chromatography.				
Background		CD33, a type I transmembrane protein, is a sialic acid-binding Ig-like lectin 3 (Siglec-3) of the Ig superfamily, and human CD33 binds preferentially to alpha-2, 6-linked sialic acid. Upon binding to its ligands, CD33 transduces inhibitory signaling through the immunoreceptor tyrosine-based inhibitory motif (ITIM) in its intracellular domain, inhibiting cellular functions such as phagocytosis. In addition, CD33 is also involved in other processes, such as adhesion (1-3). Due to its exclusive expression on hematopoietic cells, particularly the myeloid lineage and their progenitors, CD33 has been actively pursued as a therapeutic target against acute myeloid leukemia (AML) (4,5). CD33 may also be involved in Alzheimer's Disease (AD) (6-8).				
Background References		1. Avril, T. et al. (2004) <i>J Immunol</i> 173, 6841-9. 2. Cao, H. and Crocker, P.R. (2011) <i>Immunology</i> 132, 18-26. 3. Crocker, P.R. et al. (2012) <i>Ann N Y Acad Sci</i> 1253, 102-11. 4. Laszlo, G.S. et al. (2014) <i>Blood Rev</i> 28, 143-53. 5. Laing, A.A. et al. (2017) <i>Exp Hematol</i> 54, 40-50. 6. Jiang, T. et al. (2014) <i>Mol Neurobiol</i> 49, 529-35. 7. Siddiqui, S.S. et al. (2017) <i>J Biol Chem</i> 292, 15312-20. 8. Zhao, L. (2018) <i>Gerontology</i> , 1-9.				

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 W-S: Simple Western™ IP: Immunoprecipitation

Cross-Reactivity Key H: Human

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