## #39300 Store at -20C

## CD5 (E8X3S) XP® Rabbit mAb



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For Research Use Only. Not for Use in Diagnostic Procedures.							
Applications: WB, IP, IHC-Bond, IHC-P	Reactivity: H Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 65	Source/Isotype: Rabbit IgG	UniProt ID: #P06127	Entrez-Gene Id: 921	
Product Usage Information	Aŗ	Application			Dilution		
	We	estern Blotting		1	1:1000		
	Im	munoprecipitation		1	1:200		
	IH	C Leica Bond		1:400			
	lm	munohistochemistry	(Paraffin)		1	:800	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20^{\circ}$ C. Do not aliquot the antibody.					
	For	For a carrier-free (BSA and azide free) version of this product see product #86389.					
Specificity / Sensitivity		CD5 (E8X3S) XP <sup>®</sup> Rabbit mAb recognizes endogenous levels of total CD5 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly219 of human CD5 protein.					
Background		CD5 is a type-I transmembrane protein belonging to the scavenger receptor cysteine-rich (SRCR) family, characterized by the presence of at least one SRCR domain of 90-110 amino acids. CD5 is expressed by all mature T cells, the B-1a subset of mature B cells, and some leukemic B cells. Its expression is increased in regulatory T and B cells (Tregs/Bregs). Anergic T and B cells also have elevated CD5 expression. Elevated levels of CD5 are also found in many autoimmune disorders (1-3). CD5 is associated with the T cell receptor (TCR) and negatively modulates T cell activation and differentiation. CD5 expression on the tumor infiltrating T lymphocytes is inversely correlated with their antitumor activity (4-6). Recently, it was reported that CD5 directly binds to IL6 and can mediate downstream signaling. CD5+ B cells promote tumor growth in animal models (7). Reagents targeting CD5 have been actively pursued as therapeutic interventions for cancer and other conditions (8,9).					
Background References		<ol> <li>Raman, C. (2002) Immunol Res 26, 255-63.</li> <li>Soldevila, G. et al. (2011) Curr Opin Immunol 23, 310-8.</li> <li>Sigal, L.H. (2012) J Clin Rheumatol 18, 83-8.</li> <li>Azzam, H.S. et al. (2001) J Immunol 166, 5464-72.</li> <li>Dalloul, A. (2009) Autoimmun Rev 8, 349-53.</li> <li>Henderson, J.G. et al. (2015) Immunity 42, 471-83.</li> <li>Zhang, C. et al. (2016) Immunity 44, 913-923.</li> <li>Consuegra-Fernández, M. et al. (2015) Crit Rev Immunol 35, 85-115.</li> <li>Vasquez, M. et al. (2017) Eur J Immunol 47, 1108-1118.</li> </ol>					

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

**Applications Key** 

WB: Western Blotting IP: Immunoprecipitation IHC-Bond: IHC Leica Bond

IHC-P: Immunohistochemistry (Paraffin)

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CD5 (E8X3S) XP® Rabbit mAb (#39300) Datasheet Without Images Cell Signaling Technology

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dq: dog Pq: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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