B7-H3 (D9M2L) XP® Rabbit mAb



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Applications: W, W-S, IHC-Bond, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #Q5ZPR3	Entrez-Gene Id 80381
Product Usage		Application Dilution				
Information		Western Blotting			1:1000	
		Simple Western [™]			1:10 - 1:5	0
		IHC Leica Bond			1:50 - 1:2	00
		Immunohistochemis	try (Paraffin)		1:100 - 1:	400
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. <i>Do not aliquot the antibody.</i>				
		For a carrier free (BSA and azide free) version of this product see product #58798.				
Specificity/Sensitivity		B7-H3 (D9M2L) XP [®] Rabbit mAb recognizes endogenous levels of total B7-H3 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala94 of human B7-H3 protein.				
Background		B7 homolog 3 (B7-H3, CD276) is a member of the B7 family of cell surface ligands that regulate T cell activation and immune responses. B7-H3 protein contains two extracellular Ig-like V-type domains and two IgG-like C2-type domains, a transmembrane domain, and a short intracellular domain (1,2). Early research examining the biological process of B7-H3 suggested that B7-H3 is a positive regulator of T cell response (1). Subsequent research studies indicated that B7-H3 is a negative regulator of T cell response, and that the protein inhibits T cell proliferation (2,3). One possibility is that B7-H3 interacts with two distinct sets of receptors, resulting in seemingly opposite biological outcomes (2). B7-H3 is expressed by antigen presenting cells, activated T cells, and a few normal tissues, including placenta and prostate (1,4,5). Expression of B7-H3 is seen in several cancer types, including prostate, breast, colon, lung, and gastric cancers, and in endothelial cells from tumor associated vasculature (6-8).				
Background Ref	1. Chapoval, A.I. et al. (2001) <i>Nat Immunol</i> 2, 269-74. 2. Leitner, J. et al. (2009) <i>Eur J Immunol</i> 39, 1754-64. 3. Ling, V. et al. (2003) <i>Genomics</i> 82, 365-77. 4. Petroff, M.G. et al. (2005) <i>Am J Pathol</i> 167, 465-73. 5. Roth, T.J. et al. (2007) <i>Cancer Res</i> 67, 7893-900. 6. Loo, D. et al. (2012) <i>Clin Cancer Res</i> 18, 3834-45. 7. Seaman, S. et al. (2007) <i>Cancer Cell</i> 11, 539-54. 8. Zang, X. et al. (2010) <i>Mod Pathol</i> 23, 1104-12.					
Species Reactivi	itv	Species reactivity is d	etermined by testin	g in at least one approve	ed application (e.g.	western blot)

Species Reactivity

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

W: Western Blotting W-S: Simple Western™ IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key H: Human

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