#14058 Store at -20C

B7-H3 (D9M2L) XP® Rabbit mAb



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

Applications: WB, IHC-Bond, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 90	Source/Isotype: Rabbit IgG	UniProt ID: #Q5ZPR3	Entrez-Gene Id: 80381	
Product Usage Information	Ą	Application			Dilution		
	W	estern Blotting			1:1000		
	IH	C Leica Bond			1:50 - 1:200		
	Im	Immunohistochemistry (Paraffin)			1:100 - 1:400		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. <i>Do not aliquot the antibody.</i>					
	For	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 correspondence residues surrounding Ala94 of human B7-H3 protein.					esponding to		
Background	act IgG exa (1). the rec pre Exp	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).					
1. Chapoval, A.I. et al. (2001) Nat Immunol 2, 269-2. Leitner, J. et al. (2009) Eur J Immunol 39, 1754-3. Ling, V. et al. (2003) Genomics 82, 365-77. 4. Petroff, M.G. et al. (2005) Am J Pathol 167, 465-5. Roth, T.J. et al. (2007) Cancer Res 67, 7893-90-6. Loo, D. et al. (2012) Clin Cancer Res 18, 3834-7. Seaman, S. et al. (2007) Cancer Cell 11, 539-58. Zang, X. et al. (2010) Mod Pathol 23, 1104-12.							

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 IHC-Bond: IHC Leica Bond IHC-P: Immunohistochemistry (Paraffin)

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 Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

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

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