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부 전 4-1BB/CD137/TNFRSF9 Antibody



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 32, 40	Source/Isotype: Rabbit	UniProt ID: #Q07011	Entrez-Gene Id: 3604		
Product Usage Information	e	Application Western Blotting			Dilution 1:1000			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Ser	nsitivity	4-1BB/CD137/TNFRSF9 Antibody recognizes endogenous levels of total 4-1BB/CD137/TNFRSF9 protei						
Source / Purifi	ication	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gln128 of human 4-1BB/CD137/TNFRSF9 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		TNFRSF9 is a member of the tumor necrosis factor receptor superfamily (1,2). It is also called 4-1BB or CD137 (1, 2). 4-1BB/CD137/TNFRSF9 is expressed in activated CD4+ and CD8+ T cells, natural killer cells and dendritic cells (2-5). The ligand 4-1BBL/CD137L/TNFSF9 on antigen presenting cells binds to 4-1BB/CD137/TNFRSF9 and costimulates the activation of T cells (5). The binding of agonistic antibodies to 4-1BB/CD137/TNFRSF9 also leads to costimulation for T cell activation (5). Studies have shown the effectiveness of targeting 4-1BB/CD137/TNFRSF9 by its agonistic antibodies in cancer immunotherapy (6).						
Background R	eferences	rences 1. Sun, Y. et al. (2002) Nat Med 8, 1405-13. 2. Wilcox, R.A. et al. (2002) J Clin Invest 109, 651-9. 3. Lin, W. et al. (2008) Blood 112, 699-707. 4. Wilcox, R.A. et al. (2002) J Immunol 168, 4262-7. 5. Melero, I. et al. (1997) Nat Med 3, 682-5. 6. Yonezawa, A. et al. (2015) Clin Cancer Res 21, 3113-20.						
Species Reacti	ivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot I	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 K	(ey	W: Western Blotting						
Cross-Reactivi	ity Key	H: Human						
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