TRAIL (C92B9) Rabbit mAb



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Applications: W, W-S, IP, IHC-P, IF-IC, FC-FP, FC-L	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 28-30	Source/Isotype: Rabbit IgG	UniProt ID: #P50591	Entrez-Gene Id 8743
Product Usage		Application				Dilution
Information		Western Blotting				1:1000
		Simple Western™				1:10 - 1:50
		Immunoprecipitation				1:50
		Immunohistochemist				1:800
		Immunofluorescence		nistry)		1:400
		Flow Cytometry (Fixed	•	iisti y)		1:50
		Flow Cytometry (Live)	•			1:50
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. Do not aliquot the antibody.				
		For a carrier free (BSA and azide free) version of this product see product #48318.				
Specificity/Sensitivity		TRAIL (C92B9) Rabbit mAb detects endogenous levels of total human TRAIL protein.				
Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide correspondence of the protein.						
Background		Tumor necrosis factor (TNF)-related apoptosis-inducing ligand (TRAIL), also referred to as Apo2 ligand, first identified based on its sequence homology to TNF and Fas/Apo ligand is a member of the TNF family of cytokines and either exists as a type II membrane or soluble protein (1,2). TRAIL induces apoptosis in a variety of transformed cell lines and plays a role in anti-tumor and anti-viral immune surveillance (3). TRAIL signals via binding with death receptors DR4 (TRAIL-R1) (4) and DR5 (TRAIL-R2) (5-8) which can trigger apoptosis as well as NF-κB activation (7,9). Death domains on these receptors leads to the recruitment of a death-induced signaling complex (DISC) leading to caspase-8 and subsequent caspase-3 activation. In addition, TRAIL binds with decoy receptors DcR1 (TRAIL-R3) (6,8,10,11) and DcR2 (TRAIL-R4, TRUNDD) (12,13) which lack the functional cytoplasmic death domain antagonizing TRAIL-induced apoptosis. Osteoprotegerin (OPG) has also been identified as receptor capable of inhibiting TRAIL-induced apoptosis (14). The selectivity of soluble TRAIL at triggering apoptosis in transformed cells as compared to normal cells has led to its investigation as a potential cancer therapeutic (15,16).				
Background Ref	erences	1. Wiley, S.R. et al. (1995) Immunity 3, 673-82. 2. Pitti, R.M. et al. (1996) J Biol Chem 271, 12687-90. 3. Almasan, A. and Ashkenazi, A. Cytokine Growth Factor Rev 14, 337-48. 4. Pan, G. et al. (1997) Science 276, 111-3. 5. Walczak, H. et al. (1997) EMBO J 16, 5386-97. 6. MacFarlane, M. et al. (1997) J Biol Chem 272, 25417-20. 7. Chaudhary, P.M. et al. (1997) Immunity 7, 821-30. 8. Schneider, P. et al. (1997) FEBS Lett 416, 329-34. 9. Shetty, S. et al. (2002) Apoptosis 7, 413-20. 10. Sheridan, J.P. et al. (1997) Science 277, 818-21. 11. Degli-Esposti, M.A. et al. (1997) J Exp Med 186, 1165-70. 12. Pan, G. et al. (1998) FEBS Lett 424, 41-5. 13. Marsters, S.A. et al. (1997) Curr Biol 7, 1003-6.				

14. Kelley, S.K. et al. (2001) *J Pharmacol Exp Ther* 299, 31-8.

15. Walczak, H. et al. (1999) *Nat Med* 5, 157-63. 16. Ashkenazi, A. et al. (1999) *J Clin Invest* 104, 155-62. 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™ IP: Immunoprecipitation IHC-P: Immunohistochemistry

(Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry

(Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key H: Human

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