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## TRAIL (C92B9) Rabbit mAb (PE Conjugate)



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<b>Applications:</b> FC-FP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P50591	<b>Entrez-Gene Id:</b> 8743
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<b>Product Usage Information</b>	<b>Application</b> Flow Cytometry (Fixed/Permeabilized)	<b>Dilution</b> 1:50
<b>Storage</b>	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
<b>Specificity / Sensitivity</b>	TRAIL (C92B9) Rabbit mAb (PE Conjugate) detects endogenous levels of total human TRAIL protein.	
<b>Source / Purification</b>	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys60 of human TRAIL, within the extracellular region of the protein.	
<b>Product Description</b>	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated TRAIL (C92B9) Rabbit mAb #3219.	
<b>Background</b>	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).	
<b>Background References</b>	<ol style="list-style-type: none"> <li>1. Wiley, S.R. et al. (1995) <i>Immunity</i> 3, 673-82.</li> <li>2. Pitti, R.M. et al. (1996) <i>J Biol Chem</i> 271, 12687-90.</li> <li>3. Almasan, A. and Ashkenazi, A. <i>Cytokine Growth Factor Rev</i> 14, 337-48.</li> <li>4. Pan, G. et al. (1997) <i>Science</i> 276, 111-3.</li> <li>5. Walczak, H. et al. (1997) <i>EMBO J</i> 16, 5386-97.</li> <li>6. MacFarlane, M. et al. (1997) <i>J Biol Chem</i> 272, 25417-20.</li> <li>7. Chaudhary, P.M. et al. (1997) <i>Immunity</i> 7, 821-30.</li> <li>8. Schneider, P. et al. (1997) <i>FEBS Lett</i> 416, 329-34.</li> <li>9. Shetty, S. et al. (2002) <i>Apoptosis</i> 7, 413-20.</li> <li>10. Sheridan, J.P. et al. (1997) <i>Science</i> 277, 818-21.</li> <li>11. Degli-Esposti, M.A. et al. (1997) <i>J Exp Med</i> 186, 1165-70.</li> <li>12. Pan, G. et al. (1998) <i>FEBS Lett</i> 424, 41-5.</li> <li>13. Marsters, S.A. et al. (1997) <i>Curr Biol</i> 7, 1003-6.</li> <li>14. Kelley, S.K. et al. (2001) <i>J Pharmacol Exp Ther</i> 299, 31-8.</li> <li>15. Walczak, H. et al. (1999) <i>Nat Med</i> 5, 157-63.</li> <li>16. Ashkenazi, A. et al. (1999) <i>J Clin Invest</i> 104, 155-62.</li> </ol>	

### Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

### Applications Key

**FC-FP:** Flow Cytometry (Fixed/Permeabilized)

### 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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