533 Store at -20C

DR4 (D9S1R) Rabbit mAb



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Applications: WB, IP, IF-IC, FC-FP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 35-55	Source/Isotype: Rabbit IgG	UniProt ID: #O00220	Entrez-Gene Id: 8797
Product Usage	Ap	plication				Dilution
Information	We	stern Blotting				1:1000
	Imr	nunoprecipitation				1:100
	Imr	Immunofluorescence (Immunocytochemistry)				1:800
	Flo	Flow Cytometry (Fixed/Permeabilized)				1:50
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. Do not aliquot the antibody.				
Specificity / Sensitivity		DR4 (D9S1R) Rabbit mAb recognizes endogenous levels of total DR4 protein.				
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the carb terminal, cytoplasmic domain of human DR4 protein.				ecific to the carboxy	
Background	an ir activ (TR/ and impo TRA DR4 Both apop	The tumor necrosis factor receptor family, which includes TNF-RI, Fas, DR3, DR4, DR5, and DR6, plays an important role in the regulation of apoptosis in various physiological systems (1,2). The receptors are activated by a family of cytokines that include TNF, FasL, and TNF-related apoptosis-inducing ligand (TRAIL). They are characterized by a highly conserved extracellular region containing cysteine-rich repeats and a conserved intracellular region of about 80 amino acids termed the death domain (DD). The DD is important for transducing the death signal by recruiting other DD containing adaptor proteins (FADD, TRADD, RIP) to the death-inducing signaling complex (DISC), resulting in activation of caspases. DR4 (TRAIL-RI, TNFRSF10A) and DR5 (TRAIL-R2, TNFRSF10B) are receptors for the cytokine TRAIL. Both receptors contain death domains that recruit DISC complexes triggering caspase activation and apoptosis (3-6). The ability of TRAIL to selectively kill malignant cells has led to clinical studies involving TRAIL and receptor agonists (7).				
Background Referer	2. Th 3. Pa 4. W 5. Cl 6. So	 Nagata, S. (1997) Cell 88, 355-65. Thorburn, A. (2004) Cell Signal 16, 139-44. Pan, G. et al. (1997) Science 276, 111-3. Walczak, H. et al. (1997) EMBO J 16, 5386-97. Chaudhary, P.M. et al. (1997) Immunity 7, 821-30. Schneider, P. et al. (1997) Immunity 7, 831-6. Yang, A. et al. (2010) Curr Opin Cell Biol 22, 837-44. 				

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 IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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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