Store at -20C	DR5 Antibody	C T	Cell Signaling TECHNOLOGY®		
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 40, 48	Source: Rabbit	UniProt ID: #O14763	Entrez-Gene Id: 8795			
Product Usage Information		pplication /estern Blotting	Dilution 1:1000						
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.							
Specificity / Sensitivity		DR5 Antibody detects the precursor and mature forms of isoforms 1 and 2 of DR5. Cross reactivity was not detected with other family members.							
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding cysteine 248 of isoform 1 of human DR5. Antibodies were purified by protein A and peptide affinity chromatography.							
Background		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. DR5 is a receptor for TNF-related apoptosis inducing ligand (TRAIL), which has been been shown to induce apoptosis in variety of cell types and has been targeted for cancer therapy (1-5). Structurally, DR5 contains an amino-terminal leader cleavage site followed by an extracellular region containing two cysteine-rich repeats, then a central transmembrane domain and a carboxy-terminal death domain. DR5 is expressed in a wide variety of tissues and is transcriptional target for p53 (6-8). It induces apoptosis through a FADD-dependent pathway. Deletion of DR5 leads to resistance in TRAIL-mediated apoptosis as well as an abrogated response to DNA-damaging stimuli (9).							
Background Refer	2. 3. 3. 4. 3 5. 0 6. 1 7. 3 8. 3	 Nagata, S. (1997) <i>Cell</i> 88, 355-65. Thorburn, A. (2004) <i>Cell Signal</i> 16, 139-44. Wiley, S.R. et al. (1995) <i>Immunity</i> 3, 673-82. Walczak, H. et al. (1997) <i>EMBO J.</i> 16, 5386-97. Chaudhary, P.M. et al. (1997) <i>Immunity</i> 7, 821-30. MacFarlane, M. et al. (1997) <i>J. Biol. Chem.</i> 272, 25417-20. Wu, G.S. et al. (2000) <i>Adv. Exp. Med. Biol.</i> 465, 143-51. Wu, G.S. et al. (1997) <i>Nat. Genet.</i> 17, 141-3. Finnberg, N. et al. (2005) <i>Mol. Cell Biol.</i> 25, 2000-13. 							
Species Reactivity	spe	Species reactivity is determined by testing in at least one approved application (e.g., western blot).							
Western Blot Buffe		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							
Cross-Reactivity K	X: >	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							

Trademarks and Patents

Limited Uses

DR5 Antibody (#3696) Datasheet Without Images Cell Signaling Technology

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