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DcR1 Antibody

Store at -20C
#4756

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

Applications: W	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 28	Source/Isotype: Rabbit	UniProt ID: #O14798	Entrez-Gene Id: 8794
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Product Usage Information

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/Sensitivity

DcR1 detects endogenous levels of total DcR1 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human DcR1. Antibodies are 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.

Death receptor signaling is also controlled by a family of decoy receptors (DcR1, DcR2 and DcR3) which lack a cytoplasmic DD and inhibit death receptor-mediated apoptosis by competing for ligand (3-5). Expression of decoy receptors provide a mechanism for certain types of cancer to regulate apoptosis and can contribute to chemosensitivity (6-8).

Background References

1. Nagata, S. (1997) *Cell* 88, 355-65.
2. Thorburn, A. (2004) *Cell Signal* 16, 139-44.
3. Sheridan, J.P. et al. (1997) *Science* 277, 818-821.
4. Marsters, S.A. et al. (1997) *Curr. Biol.* 7, 1003-1006.
5. Pitti, R.M. et al. (1998) *Nature* 396, 699-703.
6. Liu, X. et al. (2005) *Cancer Res.* 65, 9169-9175.
7. Spalding, A.C. et al. (2002) *Oncogene* 21, 260-271.
8. Bernard, D. et al. (2001) *J. Biol. Chem.* 276, 27322-27328.

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

W: Western Blotting

Cross-Reactivity Key

H: Human **M:** Mouse **R:** Rat

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