Revision 1

Store at -20C

#4741

DcR2 Antibody

Cell Signaling TECHNOLOGY®

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	H	Transfected Only	52	Rabbit	#Q9UBN6	8793

Product Usage Information

Application	Dilution
Western Blotting	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

DcR2 Antibody detects transfected levels of human DcR2 protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu300 within the cytoplasmic domain of human DcR2. 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.
Death receptor signaling can be controlled by a family of decoy receptors (DcR1, DcR2 and DcR3) that lack a cytoplasmic DD and inhibit death receptor-mediated apoptosis by competing for ligand binding (3-5). Expression of decoy receptors can contribute to chemosensitivity and may provide a mechanism for regulation of apoptosis in certain types of cancer (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, 27322-2738.

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

Trademarks and Patents

Limited Uses

force or effect.

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