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#93026**DR6 (E8D2I) Rabbit mAb**

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

<b>Applications:</b> W, IP	<b>Reactivity:</b> H	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80, 120	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #O75509	<b>Entrez-Gene Id:</b> 27242
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**Product Usage Information****Application**

Western Blotting  
Immunoprecipitation

**Dilution**

1:1000  
1:200

**Storage**

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

**Specificity/Sensitivity**

DR6 (E8D2I) Rabbit mAb recognizes endogenous levels of total DR6 protein.

**Source / Purification**

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding His235 of human DR6 protein within the extracellular domain.

**Background**

The tumor necrosis factor receptor family, which includes TNF-R1, 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.

DR6, also known as TNFRSF21, is a TNFR family member able to induce apoptosis as well as activation of NF-κB and JNK (3). Expression of DR6 is upregulated by NF-κB signaling (4). DR6 appears to play a critical role in the activation and differentiation of T and B lymphocytes (5,6). In the nervous system, β-amyloid precursor protein (APP) activates DR6 to trigger neuronal degeneration (7).

**Background References**

1. Nagata, S. (1997) *Cell* 88, 355-65.
2. Thorburn, A. (2004) *Cell Signal* 16, 139-44.
3. Pan, G. et al. (1998) *FEBS Lett* 431, 351-6.
4. Kasof, G.M. et al. (2001) *Oncogene* 20, 7965-75.
5. Zhao, H. et al. (2001) *J Exp Med* 194, 1441-8.
6. Schmidt, C.S. et al. (2003) *J Exp Med* 197, 51-62.
7. Nikolaev, A. et al. (2009) *Nature* 457, 981-9.

**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 **IP:** Immunoprecipitation

**Cross-Reactivity Key**

**H:** Human

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