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#8356

Death Receptor Antibody Sampler Kit

1 Kit (9 x 20 microliters)

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

Product Includes	Product #	Quantity	Mol. Wt	Isotype/Source
Fas (C18C12) Rabbit mAb	4233	20 µl	40-50 kDa	Rabbit IgG
TNF-R1 (C25C1) Rabbit mAb	3736	20 µl	55 kDa	Rabbit IgG
TNF-R2 (E8D7P) Rabbit mAb	72337	20 µl	60-80 kDa	Rabbit IgG
DR5 (D4E9) XP® Rabbit mAb	8074	20 µl	40, 48 kDa	Rabbit IgG
DcR2 (D13H4) Rabbit mAb	8049	20 µl	45-60 kDa	Rabbit IgG
DcR3 Antibody	4758	20 µl	32 kDa	Rabbit
FADD Antibody	2782	20 µl	28 kDa	Rabbit
TRADD (7G8) Rabbit mAb	3684	20 µl	32 kDa	Rabbit
RIP (D94C12) XP® Rabbit mAb	3493	20 µl	78 kDa	Rabbit IgG
Anti-rabbit IgG, HRP-linked Antibody	7074	100 µl		Goat

Please visit cellsignal.com for individual component applications, species cross-reactivity, dilutions, protocols, and additional product information.

Description

The Death Receptor Antibody Sampler Kit provides an economical means to investigate the machinery of death receptor-mediated apoptosis. The kit includes enough of each primary antibody to perform two western mini-blot experiments per primary.

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.

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 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). The RIP (receptor-interacting protein) family of serine-threonine kinases (RIP, RIP2, RIP3, and RIP4) are important regulators of cellular stress that can trigger pro-survival and inflammatory responses through the activation of NF-κB as well as pro-apoptotic pathways (6). In addition to the kinase domain, RIP contains a death domain responsible for interaction with the death domain receptor Fas and for the recruitment to TNFR1 through interaction with TRADD (6,7). Overexpression of RIP induces both NF-κB activation and apoptosis (7,8). Caspase-8 dependent cleavage of the death domain on RIP can trigger the apoptotic activity of RIP (9). RIP-deficient cells show a failure in TNF-mediated NF-κB activation, making the cells more sensitive to apoptosis (10,11).

Background References

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