

RIPK3 monoclonal antibody

Catalog: MB67262

Host: Mouse

Reactivity: Human

BackGround:

The receptor-interacting protein (RIP) family of serine-threonine kinases (RIP, RIP2, RIP3, and RIP4) are important regulators of cellular stress that trigger pro-survival and inflammatory responses through the activation of NF- κ B, as well as pro-apoptotic pathways. In addition to the kinase domain, RIP contains a death domain responsible for interaction with the death domain receptor Fas and recruitment to TNF-R1 through interaction with TRADD. RIP-deficient cells show a failure in TNF-mediated NF- κ B activation, making the cells more sensitive to apoptosis. RIP also interacts with TNF-receptor-associated factors (TRAFs) and can recruit IKKs to the TNF-R1 signaling complex via interaction with NEMO, leading to I κ B phosphorylation and degradation. Overexpression of RIP induces both NF- κ B activation and apoptosis. Caspase-8-dependent cleavage of the RIP death domain can trigger the apoptotic activity of RIP. Receptor-interacting protein 3 (RIP3) was originally found to interact with RIP and the TNF receptor complex to induce apoptosis and activation of NF- κ B. It has subsequently been shown that the association between RIP and RIP3 is a key component of a signaling pathway that results in programmed necrosis (necroptosis), a necrotic-like cell death induced by TNF in the presence of caspase inhibitors. RIP3 is phosphorylated at Ser227 and targets the phosphorylation of mixed lineage kinase domain-like protein (MLKL), which is critical for necroptosis.

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol,

and 0.01% sodium azide.

Molecular Weight:

~ 60 kDa

Swiss-Prot:

Q9Y572

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000)

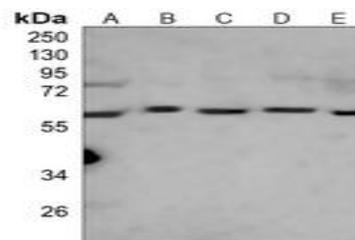
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of RIPK3 protein.

DATA:



Western blot analysis of RIPK3 expression in HT29 (A), Jurkat (B), SW620 (C), THP1 (D), K562 (E) whole cell lysates.

Note:

For research use only, not for use in diagnostic procedure.

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