
Anti-Mouse/Rat Receptor Interacting Protein 3 (RIP3) Purified

Catalog Number: 14-6048

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Contents: Anti-Mouse/Rat Receptor Interacting Protein 3 (RIP3) Purified
Catalog Number: 14-6048
Clone: Polyclonal
Concentration: 0.2 mg/mL
Host/Isotype: Rabbit IgG

REF



Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.

Batch Code: Refer to vial

Use By: Refer to vial

Description

This rabbit polyclonal antibody reacts with mouse and rat Receptor Interacting Protein (RIP) 3. This 57 kDa Ser/Thr kinase is ubiquitously expressed and resides primarily within the cytoplasm. However, studies have suggested that this protein can shuttle between the nucleus and cytoplasm. Although its kinase domain is similar to that of RIP1 and 2, RIP3 does not possess a death domain or CARD motif. RIP3 binds to and phosphorylates RIP1, resulting in inhibition of RIP1- and TNFR1-mediated NFκB activation. RIP3 mediates programmed necrosis by regulating TNF-induced reactive oxygen species production. Moreover, studies have also identified RIP3 as the molecular switch between TNF-induced apoptosis and necrosis in some cell types.

Applications Reported

This polyclonal antibody has been reported for use in western blotting and immunohistochemical staining.

Applications Tested

This polyclonal antibody has been tested by western blot analysis of NIH-3T3 cell lysate. This can be used at 0.5-4 ug/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Zhang DW, Shao J, Lin J, Zhang N, Lu BJ, Lin SC, Dong MQ, Han J. RIP3, an energy metabolism regulator that switches TNF-induced cell death from apoptosis to necrosis. *Science*. 2009 Jul 17;325(5938):332-6.

Sun X, Yin J, Starovasnik MA, Fairbrother WJ, Dixit VM. Identification of a novel homotypic interaction motif required for the phosphorylation of receptor-interacting protein (RIP) by RIP3. *J Biol Chem*. 2002 Mar 15;277(11):9505-11.

Sun X, Lee J, Navas T, Baldwin DT, Stewart TA, Dixit VM. RIP3, a novel apoptosis-inducing kinase. *J Biol Chem*. 1999 Jun 11;274(24):16871-5.

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