RIP Antibody

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

Applications: WB
Reactivity: H Mk
Sensitivity: Endogenous
MW (kDa): 78
Source: Rabbit
UniProt ID: #Q13546
Entrez-Gene Id: 8737

Product Usage Information

Application
Western Blotting

Dilution
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
RIP Antibody detects endogenous levels of RIP (RIP1) protein. No cross-reactivity was detected with other family members. This antibody also detects a carboxy-terminal fragment of RIP (45 kDa) produced by caspase-8 dependent cleavage.

Source / Purification
Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding arginine 413 of human RIP. Antibodies were purified by protein A and peptide affinity chromatography.

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-κB, as well as pro-apoptotic pathways (1). 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 (2,3). RIP-deficient cells show a failure in TNF-mediated NF-κB activation, making the cells more sensitive to apoptosis (4,5). 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 IκB phosphorylation and degradation (6,7). Overexpression of RIP induces both NF-κB activation and apoptosis (2,3). Caspase-8-dependent cleavage of the RIP death domain can trigger the apoptotic activity of RIP (8).

Background References

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
WB: Western Blotting

Cross-Reactivity Key

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