

## Product Information

### Anti-RIP3

produced in rabbit, affinity isolated antibody

Catalog Number **R4277**

### Product Description

Anti-RIP3 is produced in rabbit using as immunogen a synthetic peptide (AQFGRGRGWQPFHK) corresponding to amino acids 473-486 of mouse RIP3.<sup>1</sup> The antibody is affinity-purified using the immunizing peptide immobilized on agarose.

Anti-RIP3 recognizes mouse and rat RIP3. Applications include the detection of RIP3 by immunoblotting (~60 kDa).

RIP3 is a member of the RIP (receptor interacting proteins) and RIP2/RICK kinase family that are mediators of apoptosis.<sup>1-3</sup> RIP3 contains an N-terminal kinase domain, but unlike RIP or RIP2, it lacks the C-terminal death domain or CARD (caspase recruitment domain). RIP3 binds to RIP and TNFR1 (tumor necrosis factor receptor 1), mediates TNFR1 induced apoptosis, and attenuates RIP and TNFR1 induced NF- $\kappa$ B activation. Overexpression of RIP3 induces apoptosis and NF- $\kappa$ B activation. The messenger RNA of RIP3 is expressed in a subset of adult tissues.<sup>1, 3</sup>

### Reagent

Supplied as a solution in phosphate buffered saline, containing 0.02% sodium azide as a preservative.

Antibody concentration: ~1.0 mg/mL

### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

### Storage/Stability

For continuous use, store at 2-8 °C for up to one month. For extended storage, freeze in working aliquots. Repeated freezing and thawing, or storage in "frost-free" freezers, is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use. Working dilutions should be discarded if not used within 12 hours.

### Product Profile

Immunoblotting: a working concentration of 1-2  $\mu$ g/mL is recommended using HeLa lysate.

**Note:** In order to obtain the best results using various techniques and preparations, we recommend determining the optimal working dilutions by titration.

### References

1. Pazdernik, N.J., et al., Mouse receptor interacting protein 3 does not contain a caspase-recruiting or a death domain but induces apoptosis and activates NF- $\kappa$ B. *Mol. Cell Bio.*, **19**, 6500-6508 (1999).
2. Yu, P.W., et al., Identification of RIP3, a RIP-like kinase that activates apoptosis and NF- $\kappa$ B. *Curr. Biol.*, **9**, 539-542 (1999).
3. Sun, X., et al., RIP3, a novel apoptosis-inducing kinase. *J. Biol. Chem.*, **274**, 16871-16875 (1999).

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