

## RIP3 Antibody

*RIP3 (CT): Receptor interacting protein 3, Receptor-interacting serine-threonine kinase 3*

**CATALOG NO.:** 2283

### BACKGROUND:

Certain serine/threonine protein kinases, such as ASK1, RIP, DAP, and ZIP kinases, are mediators of apoptosis. Receptor interacting proteins including RIP and RIP2/RICK mediate apoptosis induced by TNFR1 and Fas, two prototype members in the death receptor family. A novel member in the RIP kinase family was recently identified and designated RIP3 (1-3). RIP3 contains N-terminal kinase domain but, unlike RIP or RIP2, lacks the C-terminal death or CARD domain. RIP3 binds to RIP and TNFR1, 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 (2,3).

### SOURCE:

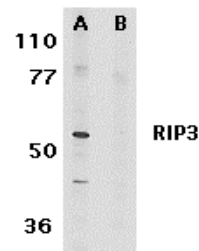
Rabbit polyclonal RIP3 antibody was raised against a peptide corresponding to amino acids near the carboxy terminus of murine RIP3 (3).

### APPLICATION:

RIP3 antibody can be used for detection of RIP3 by Western blot at 0.5 to 1  $\mu$ g/ml. (Optimal dilution should be determined by user.) 3T3 cell lysate can be used as positive control and an approximately 57 kDa band can be detected. RIP3 antibody is mouse and rat reactive. **For research use only.**

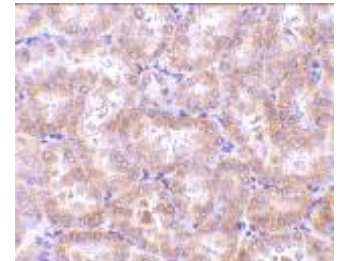
### STORAGE:

RIP3 antibody is supplied as immunoaffinity chromatography purified IgG, in PBS containing 0.02% sodium azide. Store at 4°C, stable for one year.



Western blot analysis of RIP3 in mouse 3T3 whole cell lysate in the absence (A) or presence (B) of blocking peptide with RIP3 antibody at 1  $\mu$ g/ml.

Immunohistochemistry of RIP3 in rat kidney tissue with RIP3 antibody at 5  $\mu$ g/ml.



### RELATED PRODUCTS:

Blocking peptide, Catalog No. **2283P**.  
Mouse 3T3 Whole cell lysate, Catalog No. **1212**.  
ASK1 Antibody (C2), Catalog No. **3677**.  
RICK Antibody (CT), Catalog No. **2183**.

### REFERENCES:

1. Yu PW, Huang BC, Shen M, et al. Identification of RIP3, a RIP-like kinase that activates apoptosis and NF $\kappa$ B. *Curr. Biol.* 1999; 9:539-42.
2. Sun X, Lee J, Navas T, et al. RIP3, a novel apoptosis-inducing kinase. *J. Biol. Chem.* 1999; 274:16871-5.
3. Pazdernik NJ, Donner DB, Goebel MG, 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.* 1999; 19:6500-8. (07-01D)