

## KappaB ras1 Antibody

*KappaB ras1: NF-kappaB inhibitor-interacting Ras like protein 1, κB-ras1, NKIRAS1*

**CATALOG No.:2493**

### BACKGROUND:

KappaB ras-1 (κB-ras-1) and κB-ras-2 are two small proteins that similar to Ras-like small GTPases that associate with IκappaB (IκB), an inhibitor of the transcription factor NF-κB (1). IκB exists in two homologous forms, IκB-α and IκB-β, although IκB-β contains a unique 47-amino acid region within its ankyrin domain (2). While inactive IκB-α-NF-κB complexes can shuttle in and out of the nucleus, IκB-β-NF-κB complexes are retained exclusively in the cytoplasm (2). It is suggested that κB-ras proteins preferentially bind to the IκB-β form through this unique insert within the ankyrin region, thus modulating the cellular location of IκB-β and regulating the rate of degradation of IκB-β (1,2). This antibody is specific for κB-ras1 and has no cross-reactivity to κB-ras2.

### SOURCE:

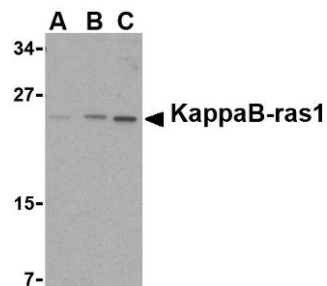
Rabbit polyclonal KappaB ras1 antibody was raised against a 15 amino acid peptide from near the carboxy terminus of human KappaB ras1 (GenBank accession no. AAF34998).

### APPLICATION:

KappaB ras1 antibody can be used for detection of KappaB ras1 by Western blot at 0.5 – 1 μg/ml. (Optimal dilution should be determined by user.) RAW264.7 cell lysate can be used as positive control. KappaB ras1 antibody is human, mouse and rat reactive. **For research use only.**

### STORAGE:

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



Western blot analysis of KappaB ras1 in RAW264.7 cell lysate with KappaB ras1 antibody at (A) 0.5, (B) 1 and (C) 2 μg/ml.

Immunocytochemistry of κB-ras1 in RAW264.7 cells with κB-ras1 antibody at 1 μg/ml.



### RELATED PRODUCTS:

Blocking Peptide, Catalog No. **2493P**.

RAW264.7 Cell Lysate, Catalog No. **1283**.

KappaB ras Antibody, Catalog No. **2491**.

KappaB ras2 Antibody, Catalog No. **2495**.

### REFERENCES:

1. Fenwick C, Na SY, Voll RE, et al. A subclass of Ras proteins that regulate the degradation of IκappaB. *Science* 2000; 287:869-73.
2. Chen Y, Wu J and Ghosh G. KappaB-Ras binds to the unique insert within the ankyrin repeat domain of IκappaBβ and regulates cytoplasmic retention of IκappaBβ x NF-κappaB complexes. *J. Biol. Chem.* 2003; 278:23101-6. (07-01D)