10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KappaB ras1 Antibody
Catalog # ASC10150

Specification

KappaB ras1 Antibody - Product Information

Application	**WB, ICC**
Primary Accession	Q9NYS0
Other Accession	AAF34998, 7008402
Reactivity	**Human, Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**KappaB ras1 antibody can be used for detection of KappaB ras1 by Western blot at 0.5 - 2 µg/mL. Antibody can also be used for immunocytochemistry starting at 1 µg/mL.**

KappaB ras1 Antibody - Additional Information

Gene ID **28512**

Other Names
KappaB ras1 Antibody: KBRAS1, kappaB-Ras1, KBRAS1, NF-kappa-B inhibitor-interacting Ras-like protein 1, I-kappa-B-interacting Ras-like protein 1, Kappa B-Ras protein 1, NFKB inhibitor interacting Ras-like 1

Target/Specificity
NKIRAS1;

Reconstitution & Storage
KappaB ras1 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
KappaB ras1 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

KappaB ras1 Antibody - Protein Information

Name NKIRAS1

Synonyms KBRAS1

Function
Atypical Ras-like protein that acts as a potent regulator of NF-kappa-B activity by preventing the degradation of NF-kappa-B inhibitor beta (NFKBIB) by most signals, explaining why NFKBIB is more resistant to degradation. May act by blocking phosphorylation of NFKBIB and mediating

cytoplasmic retention of p65/RELA NF-kappa-B subunit. It is unclear whether it acts as a GTPase. Both GTP- and GDP-bound forms block phosphorylation of NFKBIB.

Cellular Location
Cytoplasm.

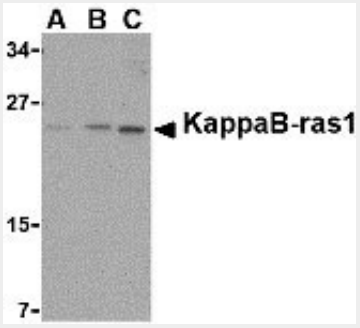
Tissue Location
Widely expressed..

KappaB ras1 Antibody - Protocols

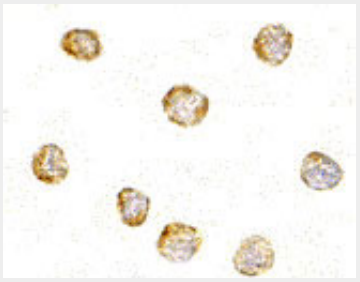
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KappaB ras1 Antibody - Images



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 KappaB-ras1 in RAW264.7 cells with KappaB-ras1 antibody at 1 µg/mL.

KappaB ras1 Antibody - Background

KappaB ras1 Antibody: KappaB ras-1 (κB-ras-1) and kappaB-ras-2 are two small proteins that similar to Ras-like small GTPases that associate with IκB (IκB), an inhibitor of the transcription factor NF-κB. IκB exists in two homologous forms, IκB-alpha and IκB-beta, although IκB-beta contains a unique 47-amino acid region within its ankyrin domain. While inactive IκB-alpha-NF-κB complexes

can shuttle in and out of the nucleus, IκB-beta-NF-κB complexes are retained exclusively in the cytoplasm. It is suggested that kappaB-ras proteins preferentially bind to the IκB-beta form through this unique insert within the ankyrin region, thus modulating the cellular location of IκB-beta and regulating the rate of degradation of IκB-beta. This antibody is specific for kappaB-ras1 and has no cross-reactivity to kappaB-ras2.

KappaB ras1 Antibody - References

Fenwick C, Na SY, Voll RE, et al. A subclass of Ras proteins that regulate the degradation of IkappaB. Science 2000; 287:869-73.
Chen Y, Wu J and Ghosh G. KappaB-Ras binds to the unique insert within the ankyrin repeat domain if IkappaBbeta and regulates cytoplasmic retention of IkappaBbeta x NF-kappaB complexes. J. Biol. Chem.2003; 278:23101-6.