ProSci

prosci-inc.com

HIGH PERFORMANCE ANTIBODIES ... AND MORE

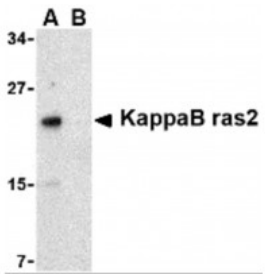
ProSci Incorporated
12170 Flint Place
Poway, CA 92064

Toll Free: +1 (888) 513 9525
Local: +1 (858) 513 2638
Fax: +1 (858) 513 2692

techsupport@prosci-inc.com

KappaB ras2 Antibody

CATALOG NUMBER: 2495



Western blot analysis of KappaB ras2 in RAW264.7 cell lysate with KappaB ras2 antibody at 1 ug/mL in the (A) absence and (B) presence of blocking peptide.

Specifications

SPECIES REACTIVITY:	Human, Mouse, Rat
HOMOLOGY:	Predicted species reactivity based on immunogen sequence: Chicken: (93%)
TESTED APPLICATIONS:	ELISA, WB
APPLICATIONS:	KappaB ras2 antibody can be used for detection of KappaB ras1 by Western blot at 1 ug/mL.
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
POSITIVE CONTROL:	1) Cat. No. 1283 - RAW264.7 Cell Lysate
IMMUNOGEN:	KappaB ras2 antibody was raised against a 14 amino acid synthetic peptide from near the carboxy terminus of human KappaB ras2. The immunogen is located within the last 50 amino acids of KappaB ras2.
HOST SPECIES:	Rabbit

Properties

PURIFICATION:	KappaB ras2 Antibody is affinity chromatography purified via peptide column.
PHYSICAL STATE:	Liquid
BUFFER:	KappaB ras2 Antibody is supplied in PBS containing 0.02% sodium azide.
STORAGE CONDITIONS:	KappaB ras2 antibody can be stored at 4˚C for three months and -20˚C, 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.
CLONALITY:	Polyclonal
ISOTYPE:	IgG
CONJUGATE:	Unconjugated

Additional Info

ALTERNATE NAMES:	KappaB ras2 Antibody: KBRAS2, kappaB-Ras2, KBRAS2, NF-kappa-B inhibitor-interacting Ras-like protein 2, I-kappa-B-interacting Ras-like protein 2, Kappa B-Ras protein 2

ACCESSION NO.:	NP_060065
PROTEIN GI NO.:	19072794
OFFICIAL SYMBOL:	NKIRAS2
GENE ID:	28511

Background

BACKGROUND:	KappaB ras2 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-ras2 and has no cross-reactivity to kappaB-ras1.
REFERENCES:	1) Fenwick C, Na SY, Voll RE, et al. A subclass of Ras proteins that regulate the degradation of IkappaB. 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 if IkappaBbeta and regulates cytoplasmic retention of IkappaBbeta x NF-kappaB complexes. J. Biol. Chem.2003; 278:23101-6.

FOR RESEARCH USE ONLY

December 12, 2016