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Datasheet for 600-401-273

KB-RAS Antibody

Overview

Description:	Anti-KB-RAS (RABBIT) Antibody - 600-401-273
Item No.:	600-401-273
Size:	100 µg
Applications:	ELISA
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	NFkB was originally identified as a factor that binds to the immunoglobulin kappa light chain enhancer in B cells. It was subsequently found in non-B cells in an inactive cytoplasmic form consisting of NFkB bound to IkB. Upon stimulation, IkB is phosphorylated and degraded, and then NF-kB translocates into the nucleus to activate the transcription of target genes. Two IkB proteins, IkBa and IkBb, exhibit divergent biochemical and genetic characteristics, exemplified by their different degradation kinetics. These differences indicate their distinctive physiological functions. Mutated forms of the small G-protein Ras are found in about 30% of all human cancers, including 95% of pancreatic and 50% of colon cancers. KB-RAS is the most commonly mutated form of Ras. KB-RAS was found to interact with the PEST domains of both IkB proteins in vitro. NFkB was originally identified as a heterodimeric DNA binding protein complex consisting of p65 (RelA) and p50 (NFKB1) subunits. Other identified subunits include p52 (NFKB2), c-Rel, and RelB. The p65, cRel, and RelB subunits are responsible for transactivation. The p50 and p52 subunits possess DNA binding activity but limited ability to transactivate. p52 has been reported to form transcriptionally active heterodimers with the NFkB subunit p65, similar to p50/p65 heterodimers. The heterodimers of p52/p65 and p50/p65 are regulated by physical inactivation in the cytoplasm by IkB-a. IkB-a binds to the p65 subunit, preventing nuclear localization and DNA binding. Low levels of p52 and p50 homodimers can also exist in cells.
Synonyms:	rabbit anti-KB-RAS antibody, rabbit anti-Kappa B Ras antibody, I kappa B interacting Ras like protein 1 antibody, Kappa B Ras 1 antibody, Kappa B Ras protein 1 antibody, KappaB Ras1 antibody, KBRAS 1 antibody, KBRAS1 antibody, NF-kappa B inhibitor interacting Ras-like protein 1 antibody
Host Species:	Rabbit
Clonality:	Polyclonal

Format:	IgG

Target Details

Gene Name:	NKIRAS1
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide
Immunogen:	This affinity purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to aa 179-192 of human KB-RAS. A single amino acid changes of S190P exists in mouse.
Purity/Specificity:	This is an affinity purified antibody produced by immunoaffinity chromatography using the immunizing peptide after immobilization to a solid phase.
Relevant Links:	• NCBI - Q9NYS0.1 • UniProtKB - Q9NYS0 • GeneID - 28512

Application Details

Tested Applications:	ELISA
Application Note:	Anti-Kappa B Ras antibody has been tested for use in ELISA against the immunizing peptide. The antibody is likely suitable for western blotting and other immunoassays. Specific conditions must be optimized by the investigator.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
WB:	1:500 - 1:3,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.