

Datasheet for 600-401-BT8**IKAP Antibody****Overview**

Description:	Anti-IKAP (RABBIT) Antibody - 600-401-BT8
Item No.:	600-401-BT8
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	IKAP was initially identified as a scaffold protein of the IκB kinase complex that could bind to IKKα, IKKβ, NF-κB, and the NF-κB-inducing kinase (NIK), although later evidence has cast doubt on this. More recent reports show that mutations in IKAP such as a frameshift leading to a truncated protein or a missense mutation that leads to defective phosphorylation are responsible for the autosomal recessive genetic disease familial dysautonomia (FD). Reports indicating that it forms part of the RNA polymerase II transcription elongation complex suggest that this disease may be due to compromised transcription elongation. More recently, it was shown that IKAP associates with c-Jun N-terminal kinase (JNK) and could specifically enhance JNK activation induced by the upstream JNK activators MEKK1 and ASK1, indicating another possible cause for FD. At least two isoforms of IKAP are known to exist.
Synonyms:	IKAP Antibody, FD, DYS, ELP1, IKI3, TOT1, Elongator complex protein 1, IκappaB kinase complex-associated protein, IKK complex-associated protein, p150
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	ELP1
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-IKAP antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the C-terminus of human IKAP.
Purity/Specificity:	Anti-IKAP Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with IKAP from other sources has not been determined.
Relevant Links:	• UniProtKB - O95163 • GeneID - 8518 • NCBI - AAC64258

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-IKAP Antibody has been tested for use in ELISA, Western Blotting, Immunocytochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 150 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5000 - 1:10000
IF:	20 µg/mL
WB:	0.5-1 µg/mL

Formulation

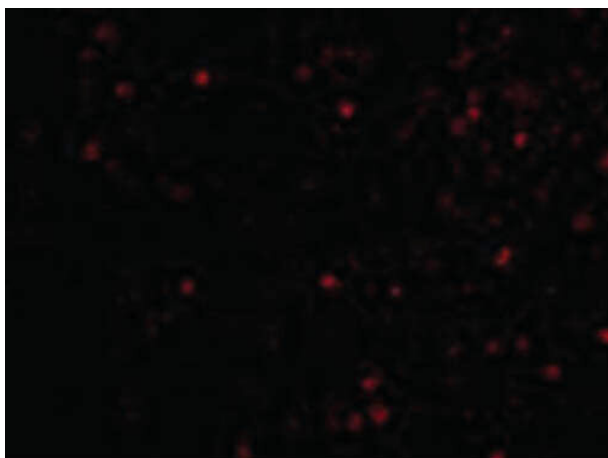
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

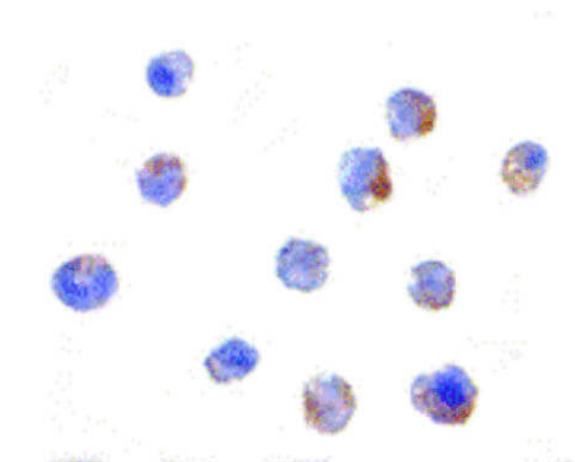
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several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

Expiration:

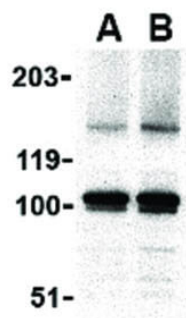
Expiration date is one (1) year from date of receipt.

Images**Immunofluorescence Microscopy**

Immunofluorescence Microscopy of IKAP antibody. Tissue: A-20 cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: IKAP antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IKAP is nuclear and cytoplasmic. Staining: IKAP as red fluorescent signal.

**Immunocytochemistry**

Immunocytochemistry of IKAP antibody. Cells: A-20 cells. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: IKAP antibody at 1 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IKAP is nuclear and cytoplasmic. Staining: IKAP as precipitated brown signal with hematoxylin blue nuclear counterstain.

**Western Blot**

Western Blot of IKAP antibody. Lane 1: A-20 cell lysate with IKAP at 0.5 µg/mL. Lane 2: A-20 cell lysate with IKAP at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 150.3 kDa, 102 kDa and 160 kDa for IKAP.

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.