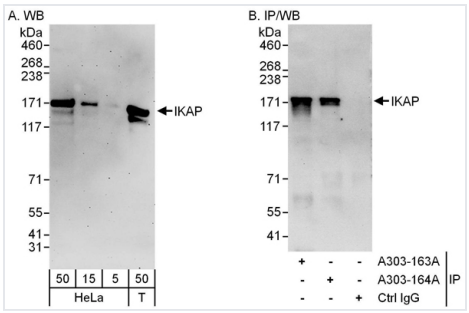
IKAP Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IKAP, Polyclonal Antibody
Full Product Name	Rabbit anti-IKAP Antibody, Affinity Purified
Product Gene Name	anti-IKAP antibody
Product Synonym Gene Name	ELP1
Product Synonym Names	ikappaB kinase complex-associated protein; p150; inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein; IKK complex-associated protein; IKI3; IKBKAP; FD; ELP1; elongator complex protein 1; elongator acetyltransferase complex subunit 1; DYS; TOT1; IKAP; Elongator complex protein 1; elongator complex protein 1
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	150,254 Da
OMIM	phenotype 603722
3D Structure	ModBase 3D Structure for O95163
Immunogen	Between 1150 and 1200
Conjugation	Unconjugated
Product Categories/Family for anti-IKAP antibody	Primary Antibodies
Applications Tested/Suitable for anti-IKAP antibody	Western Blot (WB), Immunoprecipitation (IP)
Application Notes for anti-IKAP antibody	WB: 1:2000-1:10,000 IP: 6ug/mg lysate
Related Product Information for anti-IKAP antibody	IKAP (IkappaB kinase complex-associated protein) is also known as ELP1 (elongator complex protein 1. IKAP functions as a scaffold protein and a regulator for 3 different kinases involved in proinflammatory signaling. This encoded protein can bind NF-kappa-B-inducing kinase (NIK) and IKKs through separate domains and assemble them into an active kinase complex. Mutations in this gene have been associated with familial dysautonomia [taken from NCBI Entrez Gene (Gene ID: 8518)].
Other Notes	Small volumes of anti-IKAP antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for IKAP purchase	MBS3903456 is an antibody targeting IKAP. Also known as Rabbit anti-IKAP Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-IKAP antibody
Detection of human IKAP by western blot and immunoprecipitation. Samples: Whole cell lysate from HeLa (5, 15 and 50 ug for WB; 1 mg for IP, 20% of IP loaded) and HEK293T (T; 50 ug) cells. Antibodies: Affinity purified rabbit anti-IKAP antibody MBS3903456 used for WB at 0.1 ug/ml (A) and 1 ug/ml (B) and used for IP at 6 ug/mg lysate. IKAP was also immunoprecipitated by rabbit anti-IKAP antibody MBS3903457, which recognizes a downstream epitope. Detection: Chemiluminescence with exposure times of 3 minutes (A) and 30 seconds (B).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for IKAP. It may not necessarily be applicable to this product.

NCBI GI #	38569394
NCBI GeneID	8518
NCBI Accession #	NP_003631.2
UniProt Primary Accession #	O95163
UniProt Secondary Accession #	Q5JSV2; Q9H327; Q9UG87
UniProt Related Accession #	O95163
GenBank Nucleotide #	NM_003640.3
NCBI Official Full Name	elongator complex protein 1
NCBI Official Synonym Full Names	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein
NCBI Official Symbol	IKBKAP
NCBI Official Synonym Symbols	FD; DYS; ELP1; IKAP; IKI3; TOT1
UniProt Protein Name	Elongator complex protein 1
UniProt Synonym Protein Names	IkappaB kinase complex-associated protein; IKK complex-associated protein; p150
UniProt Gene Name	IKBKAP
UniProt Synonym Gene Names	ELP1; IKAP; ELP1; IKK complex-associated protein
UniProt Entry Name	ELP1_HUMAN
NCBI Protein Information	elongator complex protein 1; IKK complex-associated protein; elongator acetyltransferase complex subunit 1; ikappaB kinase complex-associated protein; p150
NCBI Summary for IKAP	The protein encoded by this gene is a scaffold protein and a regulator for 3 different kinases involved in proinflammatory signaling. This encoded protein can bind NF-kappa-B-inducing kinase (NIK) and IKKs through separate domains and assemble them into an active kinase complex. Mutations in this gene have been associated with familial dysautonomia. [provided by RefSeq, Jul 2008]

UniProt Comments for IKAP	IKBKAP: May act as a scaffold protein that may assemble active IKK-MAP3K14 complexes (IKKA, IKKB and MAP3K14/NIK). Interacts preferentially with MAP3K14/NIK followed by IKK-alpha and IKK-beta. Component of the RNA polymerase II elongator complex (Elongator), which consists of IKBKAP/ELP1, STIP1/ELP2, ELP3, ELP4, and two yet unidentified proteins, p30 and p38. Elongator associates with the C-terminal domain (CTD) of Pol II largest subunit. Interacts with ELP3. Belongs to the ELP1/IKA1 family. Protein type: Protein kinase, regulatory subunit; Transcription regulation Chromosomal Location of Human Ortholog: 9q31 Cellular Component: transcription elongation factor complex; Elongator holoenzyme complex; cytoplasm; nucleolus; histone acetyltransferase complex Molecular Function: protein binding; signal transducer activity; phosphorylase kinase regulator activity Biological Process: regulation of transcription from RNA polymerase II promoter; establishment and/or maintenance of chromatin architecture; RNA elongation from RNA polymerase II promoter; immune response; protein complex assembly; signal transduction; regulation of protein kinase activity; protein amino acid phosphorylation; positive regulation of cell migration Disease: Neuropathy, Hereditary Sensory And Autonomic, Type Iii
Research Articles on IKAP	**1.** IKBKAP mRNA levels decreased during a familial dysautonomia crisis and returned to baseline after recovery. The cause-and-effect relationship is unclear.
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