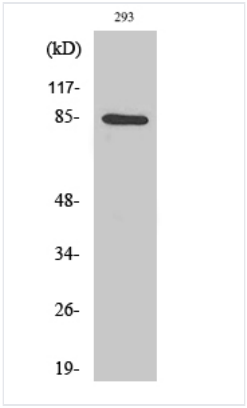
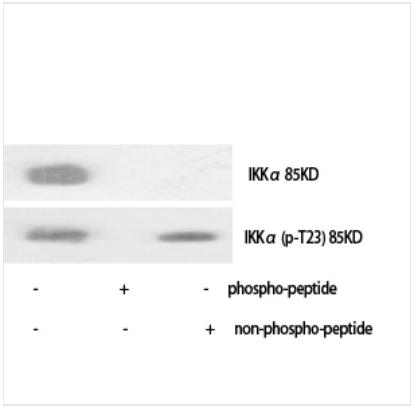
IKKalpha Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IKKalpha, Polyclonal Antibody
Full Product Name	IKKalpha Polyclonal Antibody
Product Gene Name	anti-IKKalpha antibody
Product Synonym Names	IKKa Polyclonal Antibody; CHUK; IKKA; TCF16; Inhibitor of nuclear factor kappa-B kinase subunit alpha; I-kappa-B kinase alpha; IKK-A; IKK-alpha; IkBKA; IkappaB kinase; Conserved helix-loop-helix ubiquitous kinase; I-kappa-B kinase 1; IKK1; Nuclear factor NF-kappa-B
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Form/Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Purity/Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Concentration	1 mg/ml (lot specific)
Specificity	IKKa Polyclonal Antibody detects endogenous levels of IKKa protein.
Preparation and Storage	Store at -20 degree C/1 year
Molecular Weight	84,640 Da
OMIM	600664
3D Structure	ModBase 3D Structure for O15111
Immunogen Type	peptide
Immunogen Description	Synthesized peptide derived from human IKKa around the non-phosphorylation site of T23.
Target Name	IKKa
Product Categories/Family for anti-IKKalpha antibody	Total protein Ab
Applications Tested/Suitable for anti-IKKalpha antibody	Western Blot (WB), Immunohistochemistry (IHC), ELISA (EIA)
Application Notes for anti-IKKalpha antibody	Western Blot: 1:500 - 1:2000 Immunohistochemistry: 1:100 - 1:300 ELISA: 1:10000 Not yet tested in other applications.
Related Product Information for anti-IKKalpha antibody	MBS9402935 is an antibody targeting IKKalpha. Also known as IKKalpha Polyclonal Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Other Notes	Small volumes of anti-IKKalpha 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.



Western Blot (WB) of anti-IKKalpha antibody
Western Blot analysis of 293 cells using IKKa Polyclonal Antibody



Western Blot (WB) of anti-IKKalpha antibody
Western Blot analysis of various cells using IKKa Polyclonal Antibody

ADDITIONAL DETAILS

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

NCBI GI #	62241001
NCBI GeneID	1147
NCBI Accession #	NP_001269.3
UniProt Primary Accession #	O15111
UniProt Secondary Accession #	O14666; Q13132; Q5W0I4; Q92467
UniProt Related Accession #	O15111
GenBank Nucleotide #	NM_001278.3
NCBI Official Full Name	inhibitor of nuclear factor kappa-B kinase subunit alpha
NCBI Official Synonym Full Names	conserved helix-loop-helix ubiquitous kinase
NCBI Official Symbol	CHUK
NCBI Official Synonym Symbols	IKK1; IKKA; IKBKA; TCF16; NFKBIKA; IKK-alpha
UniProt Protein Name	Inhibitor of nuclear factor kappa-B kinase subunit alpha
UniProt Synonym Protein Names	Conserved helix-loop-helix ubiquitous kinase; I-kappa-B kinase 1; IKK1; Nuclear factor NF-kappa-B inhibitor kinase alpha; NFKBIKA; Transcription factor 16; TCF-16
UniProt Gene Name	CHUK
UniProt Synonym Gene Names	IKKA; TCF16; I-kappa-B kinase alpha; IKK-A; IKK-alpha; IkBKA; IkappaB kinase; IKK1; NFKBIKA; TCF-16
UniProt Entry Name	IKKA_HUMAN
NCBI Protein Information	inhibitor of nuclear factor kappa-B kinase subunit alpha
NCBI Summary for IKKalpha	This gene encodes a member of the serine/threonine protein kinase family. The encoded protein, a component of a cytokine-activated protein complex that is an inhibitor of the essential transcription factor NF-kappa-B complex, phosphorylates sites that trigger the degradation of the inhibitor via the ubiquination pathway, thereby activating the transcription factor. [provided by RefSeq, Jul 2008]

UniProt Comments for IKKalpha	IKKA: a kinase of the IKK family. Phosphorylates inhibitors of NF-kappa-B, leading to their dissociation from NF-kappa-B and ultimately to their degradation. Phosphorylated and activated downstream of growth factor receptors, IL1R, and TNFR by NAK, IRAK and NIK, respectively. Preferentially found as a heterodimer with IKK-beta but also as an homodimer. Directly interacts with IKK-gamma/NEMO and TRPC4AP. Heterodimers form the active complex. The tripartite complex can also bind to MAP3K14/NIK, MEKK1, IKAP and IKB-alpha-p65-p50 complex. Inhibitors are under development to treat arthritis, inflammation, and apoptotic aspects of cancer. Aspirin (sodium salicylate) selectively binds IKK and reduces inflammation. Misexpression and inhibitors show involvement in insulin sensitization in obese rodents. Mutations in IKK-gamma are found in several immune deficiencies: hyper IgM syndrome, incontinentia pigmenti [embryonic lethal in males, defects in skin, hair, teeth in females] and hypohidrotic ectodermal dysplasia; recurrent infections and defects in teeth, hair, and sweat glands]. Inhibitors: CHS 828, NBD peptide, BMS-345541. Protein type: Kinase, protein; Protein kinase, Other; Protein kinase, Ser/Thr (non-receptor); EC 2.7.11.10; Other group; IKK family Chromosomal Location of Human Ortholog: 10q24-q25 Cellular Component: nucleoplasm; internal side of plasma membrane; intracellular membrane-bound organelle; cytoplasm; IkappaB kinase complex; cytosol Molecular Function: protein binding; protein homodimerization activity; IkappaB kinase activity; protein heterodimerization activity; ATP binding; protein kinase activity Biological Process: skeletal muscle contraction; lactation; I-kappaB kinase/NF-kappaB cascade; nerve growth factor receptor signaling pathway; response to toxin; response to lipopolysaccharide; osteoclast differentiation; toll-like receptor 3 signaling pathway; protein amino acid phosphorylation; T cell receptor signaling pathway; Rho protein signal transduction; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; morphogenesis of an epithelial sheet; positive regulation of interferon type I production; inflammatory response; toll-like receptor 4 signaling pathway; epidermal growth factor receptor signaling pathway; response to drug; anatomical structure morphogenesis; positive regulation of I-kappaB kinase/NF-kappaB cascade; phosphoinositide-mediated signaling; fibroblast growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; response to virus; mammary gland epithelial cell proliferation; response to amino acid stimulus; odontogenesis of dentine-containing teeth; toll-like receptor 2 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; response to hydroperoxide; toll-like receptor signaling pathway; innate immune response; striated muscle cell differentiation; positive regulation of transcription from RNA polymerase II promoter; immune response; toll-like receptor 9 signaling pathway; I-kappaB phosphorylation Disease: Cocoon Syndrome
Research Articles on IKKalpha	**1.** We also report that the extra-genomic effects elicited by both ligands, leading to recruitment of active Akt to chromatin, are essential for phosphorylation of serine 10 in histone H3 by IKKa
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