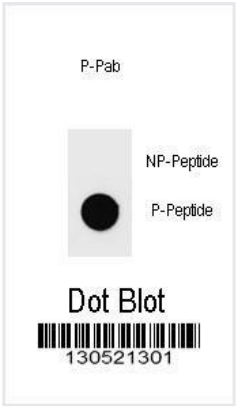
IKKB Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	IKKB, Polyclonal Antibody
Full Product Name	IKKB, Phosphorylated (S705) (IKBKB, IKKB, Inhibitor of nuclear factor kappa-B kinase subunit beta, I-kappa-B kinase 2, Nuclear factor NF-kappa-B inhibitor kinase beta) (Azide free) (HRP)
Product Gene Name	anti-IKKB antibody
Product Synonym Gene Name	IKBKB
Product Synonym Names	IKBKB; IKKB; Inhibitor of nuclear factor kappa-B kinase subunit beta; I-kappa-B kinase 2; Nuclear factor NF-kappa-B inhibitor kinase beta
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Horseradish Peroxidase (HRP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. Note: Sodium azide is a potent inhibitor of peroxidase and should not be added to HRP conjugates. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	86,564 Da
Chromosome Location	Chromosome: 8; NC_000008.10 (42128820..42190171). Location: 8p11.2
OMIM	603258
3D Structure	ModBase 3D Structure for O14920
Immunogen	Phospho-IKKB-S705 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S705 of human IKKB.
Conjugate	HRP
Antigen Modification	Phosphorylated
Note	Preservative Free
Product Categories/Family for anti-IKKB antibody	Antibodies; Protein Kinases
Applications Tested/Suitable for anti-IKKB antibody	ELISA (EIA), Dot Blot (DB)
Application Notes for anti-IKKB antibody	ELISA: 1:1,000 Applications are based on unconjugated antibody.

Related Product Information for anti-IKKB antibody	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA (MIM 164014), or RELB (MIM 604758) to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008, or NFKBIB, MIM 604495), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB) marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime (where H is A, C, or T; R is an A or G purine; and Y is a C or T pyrimidine).
Product References and Citations for anti-IKKB antibody	Yatherajam, G., et al. J. Immunol. 185(5):2665-2669(2010). Kenneth, N.S., et al. EMBO J. 29(17):2966-2978(2010). Zhao, M., et al. J. Biol. Chem. 285(32):24372-24380(2010). Niida, M., et al. Mol. Immunol. 47(14):2378-2387(2010). Schuurhof, A., et al. Pediatr. Pulmonol. 45(6):608-613(2010).
Other Notes	Small volumes of anti-IKKB 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 IKKB purchase	MBS6309776 is an antibody targeting IKKB. Also known as IKKB, Phosphorylated (S705) (IKBKB, IKKB, Inhibitor of nuclear factor kappa-B kinase subunit beta, I-kappa-B kinase 2, Nuclear factor NF-kappa-B inhibitor kinase beta) (Azide free) (HRP). Reactive in Human. Host: Rabbit.



Dot Blot (DB) of anti-IKKB antibody
Dot blot analysis of Phospho-IKKB-S705 Antibody Phospho-specific Pab on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6ug per ml.

ADDITIONAL DETAILS

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

NCBI GI #	299758411
NCBI GeneID	3551
NCBI Accession #	NP_001177649.1
UniProt Primary Accession #	O14920
UniProt Secondary Accession #	O75327; B4DZ30; B4E0U4
UniProt Related Accession #	O14920
GenBank Nucleotide #	NM_001190720.2
NCBI Official Full Name	inhibitor of nuclear factor kappa-B kinase subunit beta isoform 2
NCBI Official Synonym Full Names	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
NCBI Official Symbol	IKBKB
NCBI Official Synonym Symbols	IKK2; IKKB; NFKBIKB; IKK-beta
UniProt Protein Name	Inhibitor of nuclear factor kappa-B kinase subunit beta

UniProt Synonym Protein Names	I-kappa-B kinase 2; IKK2; Nuclear factor NF-kappa-B inhibitor kinase beta
UniProt Gene Name	IKBKB
UniProt Synonym Gene Names	IKKB; I-kappa-B-kinase beta; IKK-B; IKK-beta; IkBKB; IKK2; NFKBIKB
UniProt Entry Name	IKKB_HUMAN
NCBI Protein Information	inhibitor of nuclear factor kappa-B kinase subunit beta; IKK-B; I-kappa-B kinase 2; I-kappa-B-kinase beta; nuclear factor NF-kappa-B inhibitor kinase beta
NCBI Summary for IKKB	The protein encoded by this gene phosphorylates the inhibitor in the inhibitor/NF-kappa-B complex, causing dissociation of the inhibitor and activation of NF-kappa-B. The encoded protein itself is found in a complex of proteins. Several transcript variants, some protein-coding and some not, have been found for this gene. [provided by RefSeq, Sep 2011]
UniProt Comments for IKKB	IKKB: a kinase of the IKK family. Phosphorylates inhibitors of NF-kappa-B thus leading to the dissociation of the inhibitor/NF-kappa-B complex and ultimately the degradation of the inhibitor. Preferentially found as a heterodimer with IKK-alpha but also as an homodimer. Protein type: EC 2.7.11.10; Protein kinase, Other; Kinase, protein; Protein kinase, Ser/Thr (non-receptor); Other group; IKK family Chromosomal Location of Human Ortholog: 8p11.2 Cellular Component: internal side of plasma membrane; cytoplasm; IkappaB kinase complex; nucleus; cytosol; lipid raft Molecular Function: protein serine/threonine kinase activity; protein binding; protein homodimerization activity; IkappaB kinase activity; protein heterodimerization activity; protein kinase binding; ATP binding; protein kinase activity Biological Process: I-kappaB kinase/NF-kappaB cascade; positive regulation of I-kappaB kinase/NF-kappaB cascade; nerve growth factor receptor signaling pathway; MyD88-independent toll-like receptor signaling pathway; response to virus; positive regulation of transcription, DNA-dependent; toll-like receptor 3 signaling pathway; T cell receptor signaling pathway; protein amino acid phosphorylation; toll-like receptor 2 signaling pathway; activation of NF-kappaB transcription factor; toll-like receptor 10 signaling pathway; toll-like receptor 5 signaling pathway; MyD88-dependent toll-like receptor signaling pathway; serine phosphorylation of STAT protein; B cell homeostasis; toll-like receptor signaling pathway; positive regulation of interferon type I production; innate immune response; positive regulation of transcription from RNA polymerase II promoter; toll-like receptor 9 signaling pathway; inflammatory response; I-kappaB phosphorylation; toll-like receptor 4 signaling pathway; negative regulation of apoptosis Disease: Immunodeficiency 15
Research Articles on IKKB	**1.** the CD91/IKK/NF-kappaB signaling cascade is involved in secreted HSP90alpha-induced TCF12 expression, leading to E-cadherin down-regulation and enhanced CRC cell migration/invasion
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