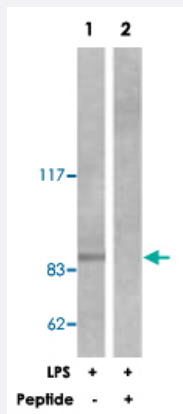


IKBKB polyclonal antibody

Catalog # PAB18155 Size 100 ug

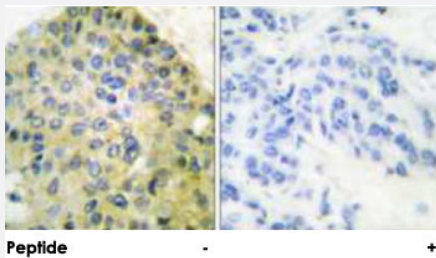
Applications



Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells, treated with LPS (100 ng/mL, 30 mins), using IKBKB polyclonal antibody (Cat # PAB18155).

Peptide "+" means "peptide blocking".



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using IKBKB polyclonal antibody (Cat # PAB18155).

Peptide "+" means "peptide blocking".

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of IKBKB.
Immunogen	A synthetic peptide corresponding to human IKBKB.
Host	Rabbit
Reactivity	Human, Mouse, Rat
Specificity	This antibody is specific to IKBKB.
Form	Liquid

Purification	Affinity purification
Concentration	1 mg/mL
Recommend Usage	Western Blot (1:500-1:1000) Immunohistochemistry (1:50-1:100) ELISA (1:5000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, 150mM NaCl, pH 7.4 (50% glycerol, 0.02% sodium azide)
Storage Instruction	Store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Cell lysate)

Western blot analysis of extracts from 293 cells, treated with LPS (100 ng/mL, 30 mins), using IKBKB polyclonal antibody (Cat # PAB18155).

Peptide "+" means "peptide blocking".

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using IKBKB polyclonal antibody (Cat # PAB18155).

Peptide "+" means "peptide blocking".

- Enzyme-linked Immunoabsorbent Assay

Gene Info — IKBKB

Entrez GeneID	3551
Protein Accession#	O14920
Gene Name	IKBKB
Gene Alias	FLJ40509, IKK-beta, IKK2, IKKB, MGC131801, NFKBIKB
Gene Description	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase beta
Omim ID	603258

Gene Ontology

[Hyperlink](#)

Gene Summary

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).[supplied by OMIM]

Other Designations

inhibitor of nuclear factor kappa B kinase beta subunit|nuclear factor NF-kappa-B inhibitor kinase beta

Publication Reference

- [NIBP, a novel NIK and IKK\(beta\)-binding protein that enhances NF-\(kappa\)B activation.](#)

Hu WH, Pendergast JS, Mo XM, Brambilla R, Bracchi-Ricard V, Li F, Walters WM, Blits B, He L, Schaal SM, Bethea JR.
The Journal of Biological Chemistry 2005 Aug; 280(32):29233.

Application: WB, Human, Mouse, Rat, HEK 293T cells, Mouse brains, PC-12 cells

- [IKK beta plays an essential role in the phosphorylation of RelA/p65 on serine 536 induced by lipopolysaccharide.](#)

Yang F, Tang E, Guan K, Wang CY.

Journal of Immunology 2003 Jun; 170(11):5630.

Application: WB, Mouse, MEFs

- [IKK beta is required for Bcl-2-mediated NF-kappa B activation in ventricular myocytes.](#)

Regula KM, Ens K, Kirshenbaum LA.

The Journal of Biological Chemistry 2002 Oct; 277(41):38676.

Application: IP, Human, 293 cells

Pathway

- [Acute myeloid leukemia](#)
- [Adipocytokine signaling pathway](#)
- [Apoptosis](#)
- [B cell receptor signaling pathway](#)

- [Chemokine signaling pathway](#)
- [Chronic myeloid leukemia](#)
- [Epithelial cell signaling in Helicobacter pylori infection](#)
- [Insulin signaling pathway](#)
- [MAPK signaling pathway](#)
- [Neurotrophin signaling pathway](#)
- [Pancreatic cancer](#)
- [Pathways in cancer](#)
- [Prostate cancer](#)
- [Small cell lung cancer](#)
- [T cell receptor signaling pathway](#)
- [Toll-like receptor signaling pathway](#)
- [Type II diabetes mellitus](#)

Disease

- [Arthritis](#)
- [Asthma](#)
- [Bronchiolitis](#)
- [Colonic Neoplasms](#)
- [Disease Susceptibility](#)
- [Genetic Predisposition to Disease](#)
- [Hematologic Diseases](#)
- [Hepatitis C](#)
- [HIV Infections](#)
- [Hodgkin Disease](#)
- [Infant](#)

- [Inflammation](#)
- [Lymphoma](#)
- [Lymphoproliferative Disorders](#)
- [Multiple Myeloma](#)
- [Occupational Diseases](#)
- [Rectal Neoplasms](#)
- [Respiratory Syncytial Virus Infections](#)
- [Thyroid Neoplasms](#)
- [Waldenstrom Macroglobulinemia](#)
- [Werner syndrome](#)