

Inhibitor Of Kappa-Light Polypeptide Gene Enhancer In B-Cells Kinase Beta (IκBκb) Active Protein | IκBκb active protein

Active Inhibitor Of Kappa-Light Polypeptide Gene Enhancer In B-Cells Kinase Beta (IκBκb)

CATALOG # AAA161931	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Inhibitor Of Kappa-Light Polypeptide Gene Enhancer In B-Cells Kinase Beta (IκBκb); Active Inhibitor Of Kappa-Light Polypeptide Gene Enhancer In B-Cells Kinase Beta (IκBκb); Inhibitor Of Kappa-Light Polypeptide Gene Enhancer In B-Cells Kinase Beta; IKK2; NFKB1KB; IKK-beta; IKKB; I-kappa-B kinase 2; Nuclear factor NF-kappa-B inhibitor kinase beta4; IκBκb active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Asp246~Val 528
Applicable Applications for IκBκb active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His and GST Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.4
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

IMAGES



Bioactivity

Inhibitor Of Kappa-Light Polypeptide Gene Enhancer In B-Cells Kinase Beta (IkbKb), a subunit of IKK, plays a crucial role in intracellular signaling, especially in inflammation and immune responses. In addition, the binding of TRAF6 to IkbKb is an important link in the immune response, which is not only involved in the initiation of inflammatory signals, but also in its regulation, thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human IkbKb and recombinant mouse TRAF6. Briefly, IkbKb was diluted serially in PBS with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to TRAF6-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST and incubated for 1h with anti-IkbKb pAb, then aspirated and washed 3 times. After incubation with HRP labelled secondary antibody for 1h at 37 degree C, wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 uL stop solution to the wells and read at 450/630 nm immediately. The binding activity of recombinant human IkbKb and recombinant mouse TRAF6 was shown in Figure 1, the EC50 for this effect is 0.11 ug/mL.



SDS-PAGE

Figure. SDS-PAGE

ADDITIONAL INFORMATION

Product Categories/Family for IkbKb active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	299758411
NCBI GeneID	3551
NCBI Accession #	NP_001177649.1
NCBI GenBank Nucleotide #	NM_001190720.2
UniProt Accession #	O14920; O75327; B4DZ30; B4E0U4
Molecular Weight	86,564 Da
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
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
UniProt Protein Name	Inhibitor of nuclear factor kappa-B kinase subunit 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

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.