

IKKb recombinant protein

Recombinant IKKb protein

CATALOG #
AAA60117

HOST
Baculovirus

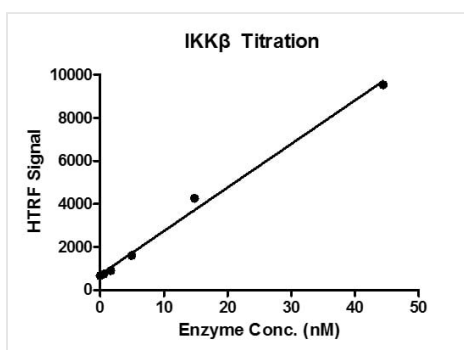
PRODUCT SYNONYMS

IKKb; Recombinant IKKb protein; Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Beta; IKK beta; IKKb recombinant protein

PRODUCT SPECIFICATIONS

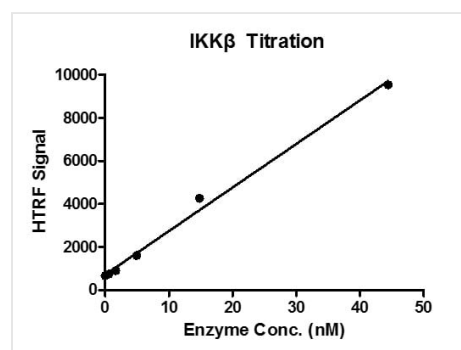
Host	Baculovirus
Form/Format	Recombinant IKKb protein is supplied in 25mM HEPES-NaOH pH7.5, 300mM NaCl, 10% glycerol, 0.04% Triton X-100 and 0.5mM TCEP.
Protein Species	Human
Tag	DYKDDDDK-Tag
Notes	Recombinant IKKb protein is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Kinase Activity Assay Conditions: 1uM STK S3 substrate was incubated with different concentrations of IKKb protein in 10ul reaction system containing 1×Enzymatic Buffer, 2mM MgCl ₂ , 1mM DTT and 100uM ATP for 1 hour. The 10ul detection reagents containing anti-STK antibody and SA-XL665, each of which was 1:100 diluted with 1× Detection Buffer were added and incubated with the reactions for 1 hr. All the operations and reactions were performed at room temperature, and HTRF KinASE STK assay was used to detect the enzymatic activity.
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Recombinant proteins in solution are temperature sensitive and must be stored at -80 degree C to prevent degradation. Avoid repeated freeze/thaw cycles and keep on ice when not in storage. Shipping Temp: Dry Ice

IMAGES



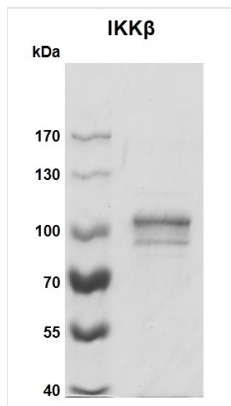
Application Data

HTRF assay for IKKb activity 1 uM STK S3 substrate was incubated with different concentrations of IKKb protein in 10 ul reaction system containing 1×Enzymatic Buffer, 2 mM MgCl₂, 1 mM DTT and 100 uM ATP for 1 hour. The detection reagents were added and incubated with the reactions for 1 hr. All the operations and reactions were performed at room temperature, and HTRF KinASE STK assay was used to detect the enzymatic activity.



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SDS-PAGE

Recombinant IKK&beta protein gel> 7.5% SDS-PAGE Coomassie staining MW: 87.8 kDa
Purity: ? 60%

ADDITIONAL INFORMATION

Related Product Information for IKKb recombinant protein	Short Description: Recombinant human IKKb protein was expressed in a baculovirus expression system as the full-length protein (accession number NP_001547.1) with an N-terminal DYKDDDDK tag. The molecular weight of the protein is 87.8 kDa. It is suitable for use in the study of enzyme kinetics, inhibitor screening, and selectivity profiling. Background: IKKb (Inhibitor Of Nuclear Factor Kappa B Kinase Subunit Beta), also known as IKBKB, I-Kappa-B-Kinase 2, IKK-Beta and NFKB1KB, is a serine kinase that plays an essential role in the NF-kappa-B signaling pathway which is activated by multiple stimuli such as inflammatory cytokines, bacterial or viral products, DNA damages or other cellular stresses. It acts as part of the canonical IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B on 2 critical serine residues. These modifications allow polyubiquitination of the inhibitors and subsequent degradation by the proteasome. In turn, free NF-kappa-B is translocated into the nucleus and activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. In addition to the NF-kappa-B inhibitors, IKKb can also phosphorylate several other components of the signaling pathway including NEMO/IKBKG, NF-kappa-B subunits RELA and NFkB1, as well as IKK-related kinases TBK1 and IKBKE. IKK-related kinase phosphorylations may prevent the overproduction of inflammatory mediators since they exert a negative regulation on canonical IKKs. IKKb can phosphorylate FOXO3, mediating the TNF-dependent inactivation of this pro-apoptotic transcription factor.
Product Categories/Family for IKKb recombinant protein	Recombinant Proteins ; Kinase ; Transcription

NCBI AND UNIPROT INFORMATION

NCBI GI #	41352712
NCBI GeneID	3551
NCBI Accession #	NP_001547.1
NCBI GenBank Nucleotide #	NM_001556.2
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 1
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; NFKB1KB; 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; NFKB1KB
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.

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Online datasheet: <https://stage.aaabiotech.com/ikbkb-recombinant-protein-baculovirus/60117>