

IKK- β (Phospho-Tyr199) Antibody

Catalog No: #11305



Package Size: #11305-1 50ul #11305-2 100ul

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Description

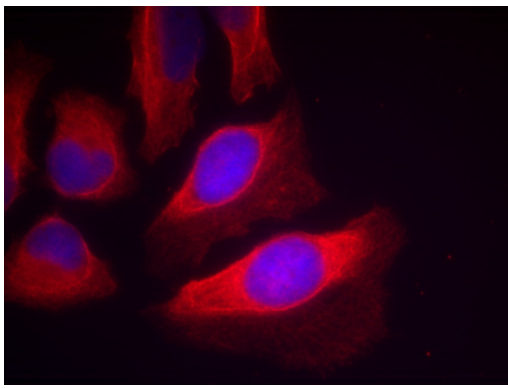
Product Name	IKK- β (Phospho-Tyr199) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	IF
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of IKK-beta only when phosphorylated at tyrosine 199.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of tyrosine 199(Q-K-Y(p)-T-V) derived from Human IKK- β .
Target Name	IKK- β
Modification	Phospho
Other Names	IKK2; IKKB; NFKB1KB; IKK-beta
Accession No.	Swiss-Prot: O14920; NCBI Gene ID: 3551; NCBI mRNA: NM_001190720.2 ; NCBI Protein: NP_001177649.1
Uniprot	O14920
GeneID	3551;
SDS-PAGE MW	87KD
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C

Application Details

Predicted MW: 87kd

Immunofluorescence: 1:100~1:200

Images



Immunofluorescence staining of methanol-fixed HeLa cells using IKK- β (Phospho-Tyr199) Antibody (#11305, Red).

Background

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. 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, phosphorylates 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. Also phosphorylates other substrates including NCOA3, BCL10 and IRS1. Within the nucleus, acts as an adapter protein for NFKBIA degradation in UV-induced NF-kappa-B activation.

Note: This product is for in vitro research use only