

IKK- alpha/ beta (Phospho-Ser176/177) Antibody

Catalog No: #11931

Package Size: #11931-1 50ul #11931-2 100ul

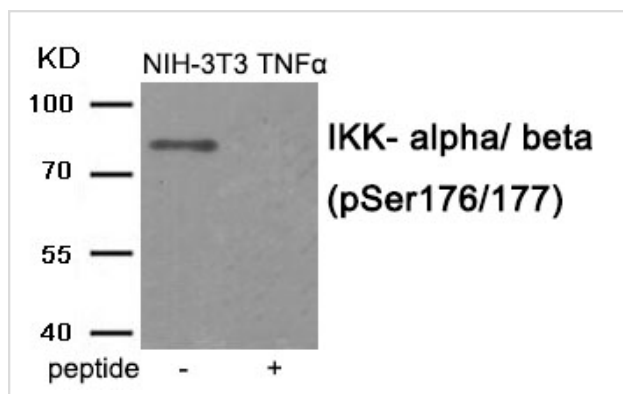
Description

Product Name	IKK- alpha/ beta (Phospho-Ser176/177) 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	WB, IHC, IF, ELISA
Species Reactivity	Hu Ms Rt
Specificity	The antibody detects endogenous level of IKK- alpha/beta only when phosphorylated at serine 176/177.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 176/177 (Q-G-S(p)-L-C) derived from Human IKK-alpha/beta.
Conjugates	Unconjugated
Target Name	IKK- alpha/ beta
Modification	Phospho
Other Names	FLJ40509; I-kappa-B kinase; IKBKB; kinase beta; NFKBKB
Accession No.	Swiss-Prot#: O15111/O14920; NCBI Gene#: 1147; NCBI Protein#: NP_001269.3
SDS-PAGE MW	85kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C/1 year

Application Details

WB 1:500-1:2000; IHC 1:100-1:300; ELISA 1:10000; IF 1:50-200

Images



Western blot analysis of extracts from NIH-3T3 cells treated with TNF using IKK- alpha/ beta (Phospho-Ser176/177) antibody #11931. The lane on the right is treated with the antigen-specific peptide.

Background

Acts as part of the IKK complex in the conventional pathway of NF-kappa-B activation and 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. As part of the non-canonical pathway of NF-kappa-B activation, the MAP3K14-activated CHUK/IKKA homodimer phosphorylates NFkB2/p100 associated with RelB, inducing its proteolytic processing to NFkB2/p52 and the formation of NF-kappa-B RelB-p52 complexes. Also phosphorylates NCOA3.

Chandrakesan P, et al. (2010) J Biol Chem 285, 33485-98

Hinz M, et al. (2010) Mol Cell 40, 63-74

Choudhary S, Lu M, Cui R, Brasier AR (2007) Mol Endocrinol 21, 2203-17

Published Papers

Ying Wan;Li Han;Lu Rong;Shuyuan Yang;Lu Song;Na Wu;Zhenguo Liu;Jing Gan et al., Inhibition of BET Protein Function Suppressed the Overactivation of the Canonical NF-κB Signaling Pathway in 6-OHDA-Lesioned Rat Model of Levodopa-Induced Dyskinesia, , (2022)

[PMID:35801173](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.