

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

Catalog No: #11931



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

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

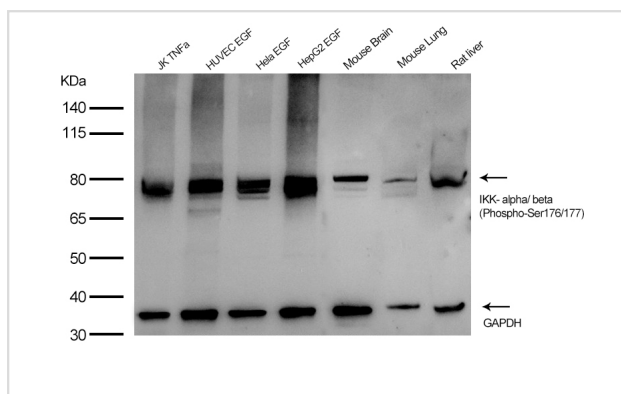
Description

Product Name	IKK- alpha/ beta (Phospho-Ser176/177) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Applications	WB,IHC,IF,ELISA
Species Reactivity	Human;Mouse;Rat
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; IKKB; kinase beta; NFKB1KB
Accession No.	Swiss-Prot#: O15111/O14920; NCBI Gene#: 1147; NCBI Protein#: NP_001269.3
Calculated MW	85 kDa
SDS-PAGE MW	85 kDa
Concentration	1.0mg/ml
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C/1 year

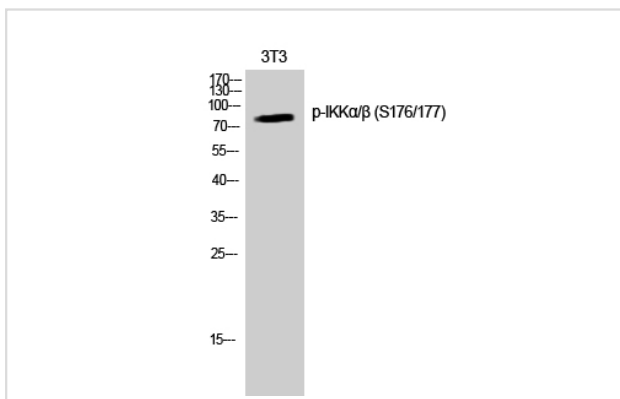
Application Details

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

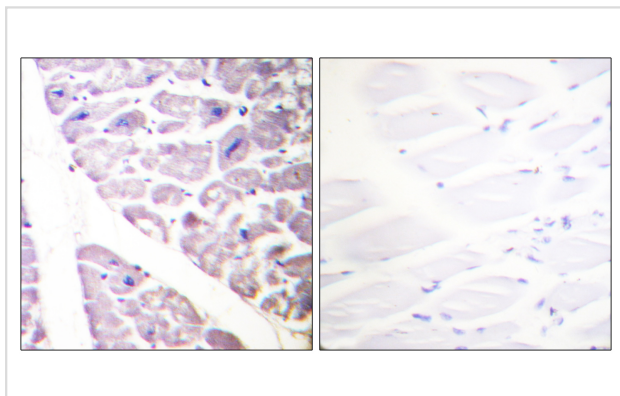
Images



All Lanes:IKK- alpha/ beta (Phospho-Ser176/177) Antibody at 1/ 500 dilution.Lane1:Jurkat treated with 20ng/ml TNF- α for 30min Cell lysateLane2: Huvec treated with 100ng/ml EGF for 30min Cell lysateLane3: HeLa treated with 100ng/ml EGF for 30min Cell lysateLane4: HepG2 treated with 100ng/ml EGF for 30min Cell lysateLane5: Mouse Brain Tissue lysateLane6:Mouse lung Tissue lysateLane7:Rat Liver Tissue lysateLysates/proteins at 40 μ g per lane. Secondary: Goat Anti-Rabbit IgG(HRP) at 1/20000 dilutionPredicted band size : 85kDaObserved band size:B 80kDa



Western Blot analysis of NIH-3T3 cells using #11931 diluted at 1:1000



Immunohistochemistry analysis of paraffin-embedded human heart, using #11931. The picture on the right is blocked with the phospho 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](#)

Zhang Xiuli, Yu Yan, Yu Lihong, Wu Cheng, Chen Yangyi, Wang Jingting, Chen Hui, Xu Chao, Lin Jiumao, Zhang Xueyan, Wang Qingshui, Assaraf Yehuda, Lin Yao et al., Anti-inflammatory activity and mechanism of action of Banxia Xiexin Decoction on DSS-induced ulcerative colitis in mice, *Journal of ethnopharmacology*, (2025)

[PMID:41161626](#)

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