IKK- alpha (Phospho-Thr23) Antibody

Catalog No: #11129

Package Size: #11129-1 50ul #11129-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	IKK- alpha (Phospho-Thr23) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Isotype	IgG
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 chromatogramphy using non-phosphopeptide.
Applications	WB;IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of IKKa only when phosphorylated at threonine 23.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine 23 (L-G-T(p)-G-G) derived from Human IKK a.
Conjugates	Unconjugated
Target Name	IKK a
Modification	Phospho
Other Names	I kappa-B kinase alpha; I-kappa-B kinase 1; IKK-A; IKK-alpha; IKK1
Accession No.	Swiss-Prot: O15111NCBI Protein: NP_001269.3
Calculated MW	85 kDa
SDS-PAGE MW	85 kDa
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL 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 for long term preservation (recommended). Store at 4°C for short term use.

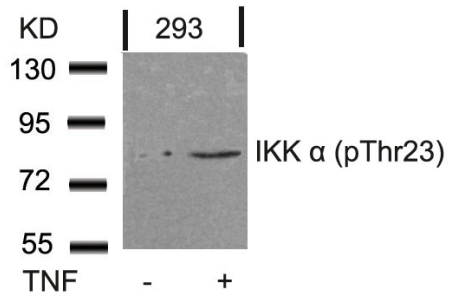
Application Details

Predicted MW: 85kd

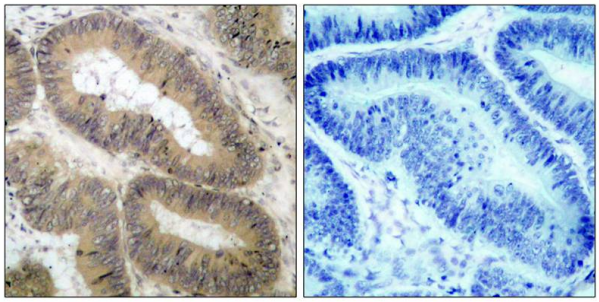
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

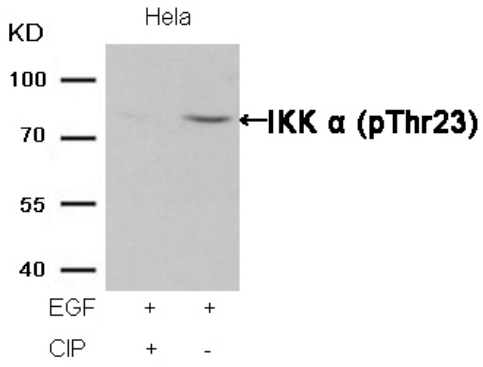
Images



Western blot analysis of extracts from 293 cells untreated or treated with TNF using IKK a(Phospho-Thr23) Antibody #11129.



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using IKK a(Phospho-Thr23) Antibody #11129(left) or the same antibody preincubated with blocking peptide(right).



Western blot analysis of extracts from Hela cells, treated with EGF or calf intestinal phosphatase (CIP), using IKK α (Phospho-Thr23) Antibody #11129.

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. Phosphorylates 'Ser-10' of histone H3 at NF-kappa-B-regulated promoters during inflammatory responses triggered by cytokines.

Yuan ZQ, et al.(2002) J Biol Chem; 277(33): 29973-82.

Ozes ON, et al. (1999) Nature; 401(6748): 82-5.

Published Papers

el at., Noncanonical NF-ı-• B activation mediates STAT3-stimulated IDO upregulation in myeloid-derived suppressor cells in breast cancer.In J Immunol on 2014 Sep 1 by Jinpu Yu , Yue Wang et al..PMID:25063873, , (2014)

PMID:25063873

el at., Protective effects of chlorogenic acid on inflammatory responses induced by Staphylococcus aureus and milk protein synthesis in bovine mammary epithelial cells. In Microb Pathog on 2022 Oct by Qiang Ji, Meng Zhang, et al..PMID: 35995255, , (2022)

PMID:35995255

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