

## IKK a(Phospho-Thr23) Antibody

Catalog No: #11129

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

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## Description

Product Name	IKK a(Phospho-Thr23) 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
Species Reactivity	Hu Ms Rt
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.
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
Uniprot	O15111
GeneID	1147;
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 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.

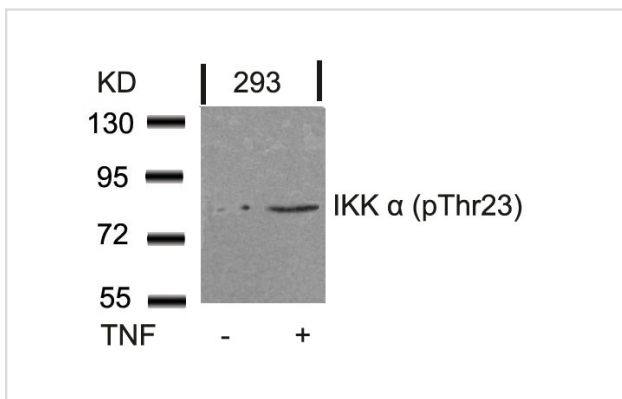
## Application Details

Predicted MW: 85kd

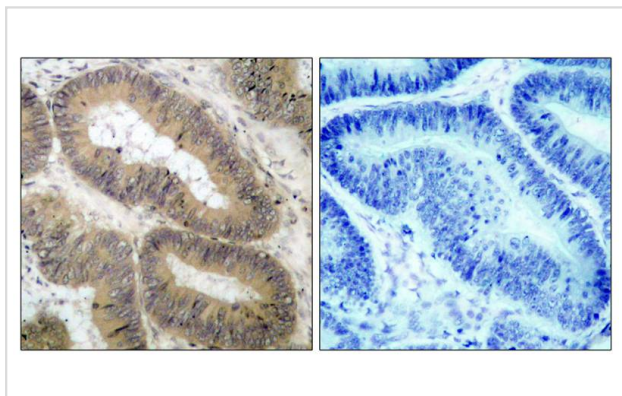
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

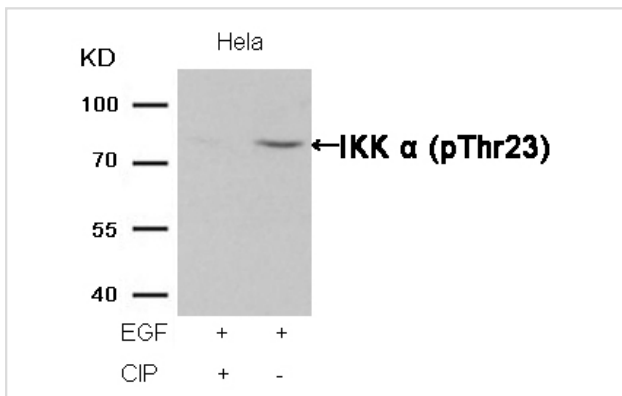
## Images



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



Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using IKK α(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.

Note: This product is for in vitro research use only