

### 35-1125: Polyclonal Antibody to IKK Alpha (Phospho-Thr23)

<b>Clonality :</b>	Polyclonal
<b>Application :</b>	WB,IHC
<b>Reactivity :</b>	Human,Mouse,Rat
<b>Gene :</b>	CHUK
<b>Gene ID :</b>	1147
<b>Uniprot ID :</b>	O15111
<b>Format :</b>	Purified
<b>Alternative Name :</b>	I kappa-B kinase alpha, I-kappa-B kinase 1, IKK-A, IKK-alpha, IKK1
<b>Isotype :</b>	Rabbit IgG
<b>Immunogen Information :</b>	Peptide sequence around phosphorylation site of threonine 23 (L-G-T(p)-G-G) derived from Human IKK $\alpha$ .

#### Description

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.

#### Product Info

<b>Amount :</b>	50 $\mu$ l / 100 $\mu$ l
<b>Content :</b>	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.
<b>Storage condition :</b>	Store the antibody at 4°C, stable for 6 months. For long-term storage, store at -20°C. Avoid repeated freeze and thaw cycles.

#### Application Note

Predicted MW: 85kd, Western blotting: 1:500~1:1000, Immunohistochemistry: 1:50~1:100

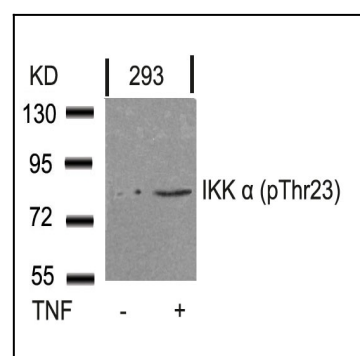


Figure 1: Western blot analysis of extracts from 293 cells untreated or treated with TNF using IKK  $\alpha$ (Phospho-Thr23) Antibody 35-1125 .

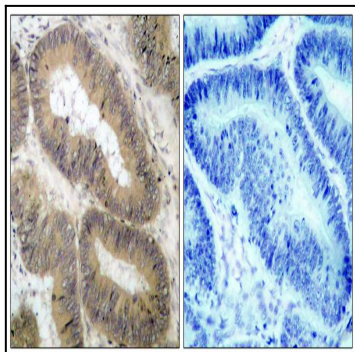


Figure 2: Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using IKK α(Phospho-Thr23) Antibody 35-1125 (left) or the same antibody preincubated with blocking peptide(right).

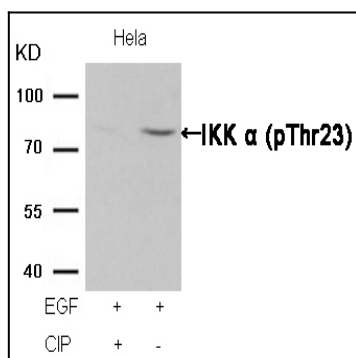


Figure 3: Western blot analysis of extracts from HeLa cells, treated with EGF or calf intestinal phosphatase (CIP), using IKK α (Phospho-Thr23) Antibody 35-1125 .