Data Sheet (Cat.No.TMAC-02123)

Anti-Phospho-IKBKA (Thr23) Polyclonal Antibody

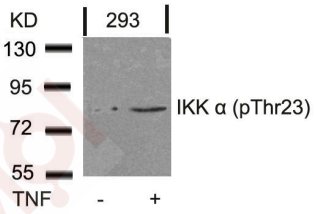
Product Details

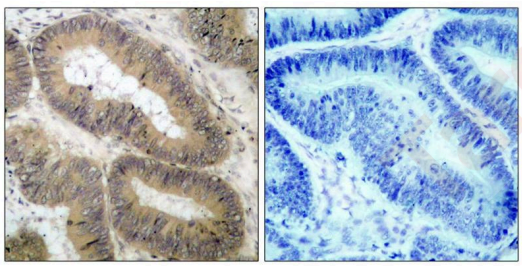
Ig Type:	IgG
Reactivity:	Human,Mouse,Rat
Conjugation:	Unconjugated
Purification:	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.

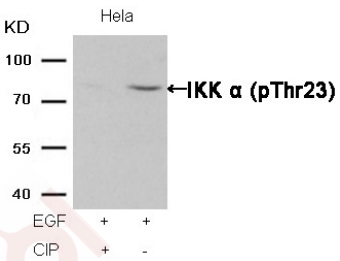
Applications

Verified Activity:

1. Western blot analysis of extracts from 293 cells untreated or treated with TNF using IKK a (Phospho-Thr23) Antibody TMAC-02123.
2. Immunohistochemical analysis of paraffin-embedded human colon carcinoma tissue using IKK a (Phospho-Thr23) Antibody TMAC-02123 (left) or the same antibody preincubated with blocking peptide (right).
3. Western blot analysis of extracts from Hela cells, treated with EGF or calf intestinal phosphatase (CIP), using IKK α (Phospho-Thr23) Antibody TMAC-02123.







Application: IHC,WB

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	Peptide sequence around phosphorylation site of threonine 23 (L-G-T(p)-G-G) derived from Human IKK a
Antigen Species:	Human
Uniprot ID:	O15111
Synonyms:	p-IKK- alpha (Thr23);IKK- alpha (p-T23);IKK- alpha (p-Thr23);p-IKK- alpha (T23)

Research 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.

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