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Product datasheet for AP06185PU-N

IKB alpha (NFKBIA) Rabbit Polyclonal Antibody

Product data:

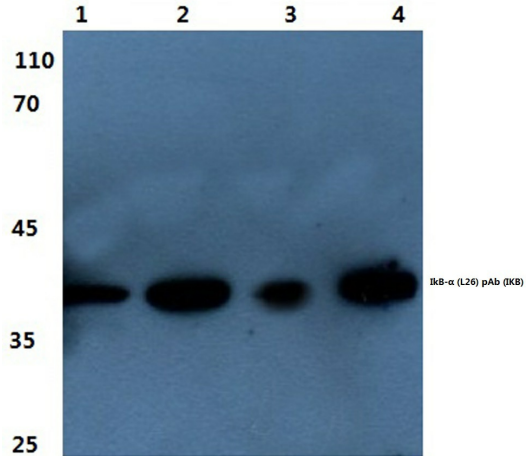
Product Type:	Primary Antibodies
Applications:	ELISA, IHC, WB
Recommended Dilution:	**Western blot**: 1/500-1/1000. **Immunohistochemistry on paraffin sections:** 1/50-1/200. **Immunofluorescence**: 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide, corresponding to the N-terminal of Human IkB-α.
Specificity:	This antibody detects endogenous levels of IkappaB-alpha protein. (region surrounding Leu26)
Formulation:	Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide
Concentration:	1.0 mg/ml
Purification:	Affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~ 36 kDa
Gene Name:	NFKB inhibitor alpha

Database Link: Entrez Gene 4792 Human
P25963

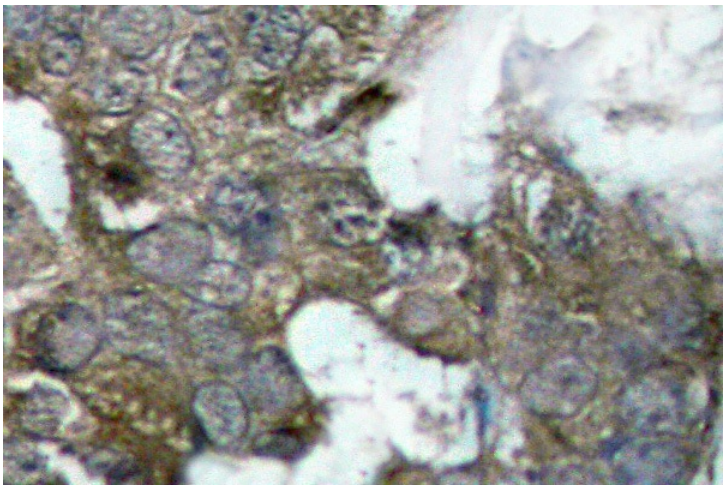
Background: The transcription factor NFkappaB is retained in the cytoplasm in an inactive form by the inhibitory protein IkappaB. Activation of NFkappaB requires that IkappaB be phosphorylated on specific serine residues, which results in targeted degradation of IkappaB. IkappaB kinase alpha (IKKalpha), previously designated CHUK, interacts with IkappaB-alpha and specifically phosphorylates IkappaB-alpha on the sites that trigger its degradation Serines 32 and 36. IKKalpha appears to be critical for NFkappaB activation in response to proinflammatory cytokines. Phosphorylation of IkappaB by IKKalpha is stimulated by the NFkappaB inducing kinase (NIK), which itself is a central regulator for NFkappaB activation in response to TNF and IL-1. The functional IKK complex contains three subunits, IKKalpha, IKKbeta and IKKgamma (also designated NEMO), and each appear to make essential contributions to IkappaB phosphorylation.

Synonyms: I-kappa-B-alpha, MAD3, NFKBI, I kappa B-alpha, IkappaBalpha, IkB-alpha

Product images:



Western blot (WB) analysis of IkB-a antibody at 1/500 dilution Lane 1:Hela whole cell lysate treated with TNF-alpha Lane 2:HepG2 whole cell lysate treated with TNF-alpha Lane 3:RAW264.7 whole cell lysate treated TNF-alpha Lane 4:RAW264.7 whole cell lysate treated with Lps



Immunohistochemistry (IHC) analyzes of I?B-a antibody in paraffin-embedded human breast carcinoma tissue.