

Product datasheet for **AP02694PU-S**

IKB alpha (NFKBIA) Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	Suitable for use in in Western blot (1/500-1/1000) and Immunohistochemistry (1/50-1/100).
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	The antiserum was produced against synthesized non-phosphopeptide derived from human IκB-α around the phosphorylation site of tyrosine 42 (E-E-Y ρ -E-Q).
Specificity:	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen. IκB-α antibody AP02694PU detects endogenous levels of total IκB-α protein.
Formulation:	PBS (without Mg ²⁺ and Ca ²⁺), pH 7.4, 150 mM NaCl, 0.02% Sodium Azide and 50% Glycerol State: Aff - Purified State: Liquid purified Ig fraction
Concentration:	lot specific
Purification:	Immunoaffinity chromatography
Conjugation:	Unconjugated
Storage:	Store the antibody (in aliquots) at -20°C. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	NFKB inhibitor alpha
Database Link:	Entrez Gene 4792 Human P25963



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Background:

Three major forms of IKB like molecules have been identified and each is characterised by multiple copies of ankyrin repeats. IKB alpha and IKB beta appear to be the major regulatory forms of IKB in most cells. These proteins interact with p65 or cRel containing forms of NFkB and block nuclear import by masking the nuclear localisation sequences of NFkB. The activation of NFkB involves the inducible phosphorylation and subsequent degradation of IKB. Immunoblotting easily detects the hyperphosphorylated forms of IKB alpha, but not phosphorylated IKB beta. Interestingly, IKB alpha and IKB beta mediate different NFkB responses. Ikb alpha appears to control more transient activation of NFkB in response to an inducer, while IKB beta controls a persistent response. Bcl3 interacts with p50 and p52 containing forms of NFkB, but rather than being an inhibitor it appears to function to stimulate transcription. The degradation of IKB is confirmed by immunoblotting.

Synonyms:

I-kappa-B-alpha, MAD3, NFKBI, I kappa B-alpha, IkappaBalpha, IKB-alpha

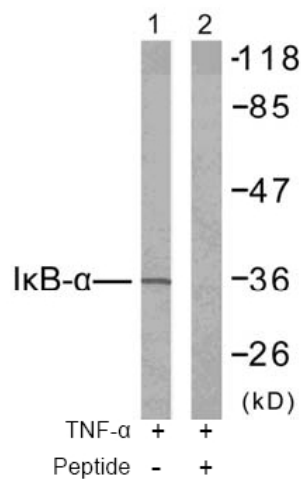
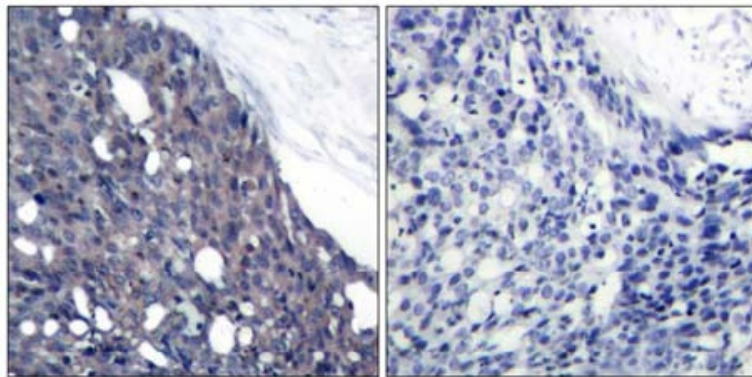
Product images:


Figure 2. Western blot analysis of extracts from 293 cells untreated or treated with TNF-α (20 ng/ml, 30 min), using IκB-α antibody.



Peptide - +

Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using IκB-α antibody.