

## Product datasheet for **AP02651PU-S**

### **IKB alpha (NFKBIA) Rabbit Polyclonal Antibody**

#### **Product data:**

Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	<b>Western blot:</b> 1/500 - 1/1000; Incubate membrane with diluted antibody in 5% nonfat milk, 1X TBS, 0,1% Tween-20 at 4°C with gentle shaking, overnight. <b>Immunohistochemistry on paraffin sections:</b> 1/50 -1/100. <b>Immunofluorescence:</b> 1/100 - 1/200.
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic non-phosphopeptide derived from human IkappaB-alpha around the phosphorylation site of serine 32/36 (H-D-S-G-L-D-S-M-K).
Specificity:	IkappaB-alpha antibody detects endogenous levels of total IkappaB-alpha protein.
Formulation:	PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 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:	<a href="#">Entrez Gene 4792 Human P25963</a>



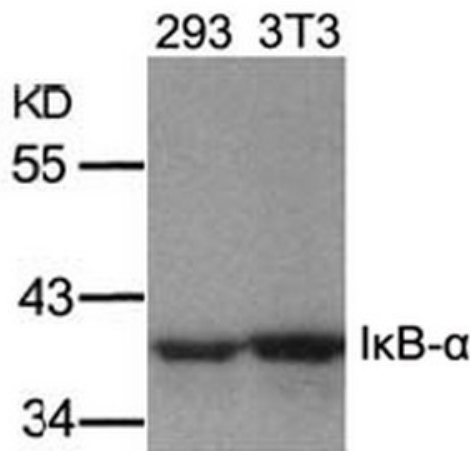
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**Background:**

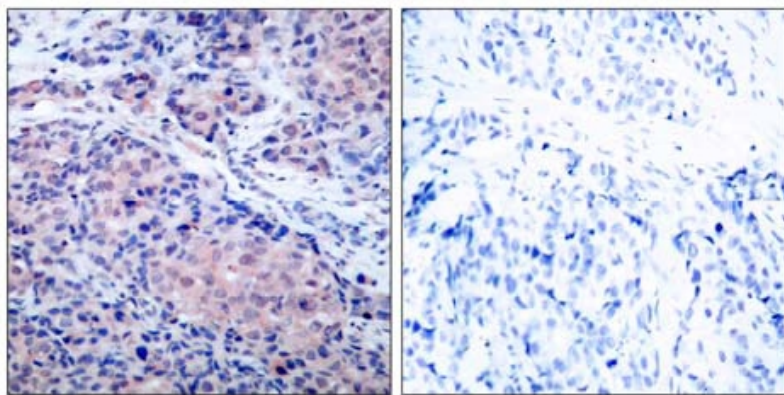
Three major forms of IKB like molecules have been identified and each is characterised by multiple copies of ankyrin repeats. IkappaB alpha and IkappaB beta appear to be the major regulatory forms of IKB in most cells. These proteins interact with p65 or cRel containing forms of NFkappaB and block nuclear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

**Synonyms:**

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

**Product images:**

Western Blot analysis of extracts from 293 and 3T3 cells using IkappaB-alpha antibody

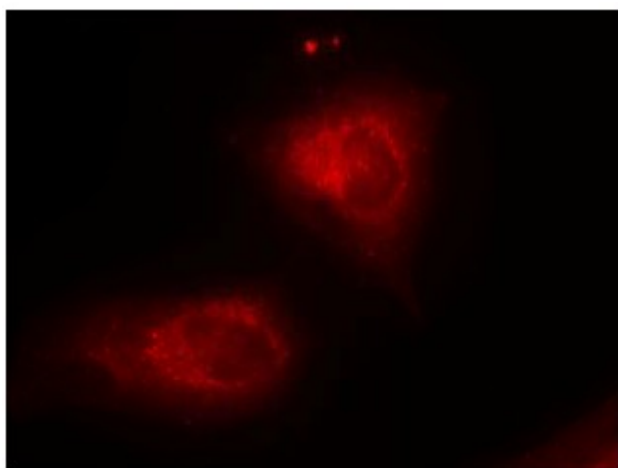


Peptide

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Figure 1. Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using I $\kappa$ B- $\alpha$  antibody.



Immunofluorescence staining of methanol-fixed HeLa cells using I $\kappa$ B- $\alpha$  antibody