

I $\kappa$ B-a(Ab-32/36) Antibody

Catalog No: #21122

Package Size: #21122-1 50ul #21122-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

## Description

|                       |   |
|-----------------------|---|
| Product Name          | I $\kappa$ B-a(Ab-32/36) Antibody   |
| Host Species          | Rabbit  |
| Clonality             | Polyclonal  |
| Purification          | Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide. |
| Applications          | WB IHC IF   |
| Species Reactivity    | Hu Ms   |
| Specificity           | The antibody detects endogenous level of total I $\kappa$ B-a protein.  |
| Immunogen Type        | Peptide-KLH   |
| Immunogen Description | Peptide sequence around aa.30~34/34~38 (H-D-S-G-L- D-S -M-K) derived from Human I $\kappa$ B-a.   |
| Target Name           | I $\kappa$ B-a  |
| Other Names           | I-kappa-B-alpha; IKBA; NF-kappaB inhibitor alpha; NFKBI; NFKBIA   |
| Accession No.         | Swiss-Prot: P25963NCBI Protein: NP_065390.1   |
| Uniprot               | P25963  |
| GeneID                | 4792;   |
| Concentration         | 1.0mg/ml  |
| Formulation           | 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.                  |
| Storage               | Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.   |

## Application Details

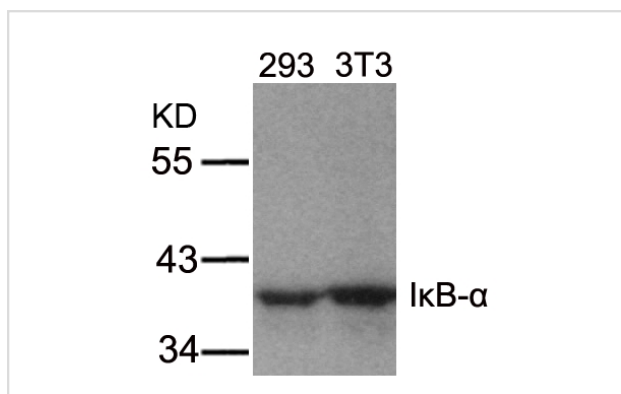
Predicted MW: 39kd

Western blotting: 1:500~1:1000

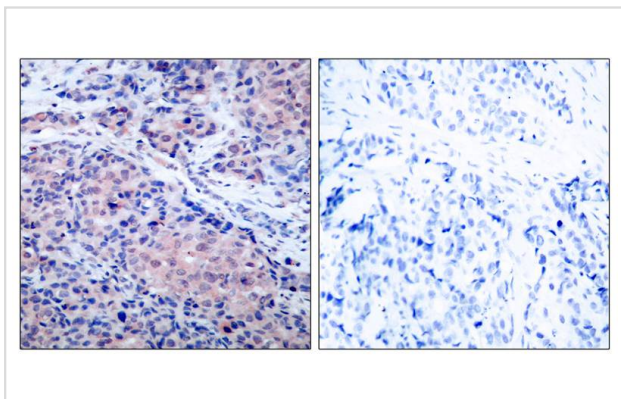
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

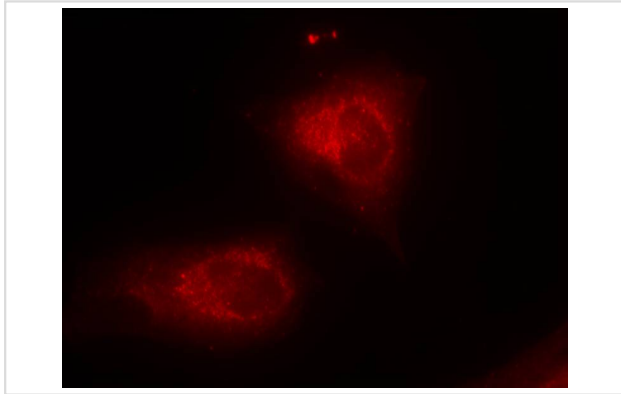
## Images



Western blot analysis of extracts from 293 and 3T3 cells using I $\kappa$ B-a(Ab-32/36) Antibody #21122.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using IκB-α(Ab-32/36) Antibody #21122(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using IκB-α(Ab-32/36) Antibody #21122.

## Background

Inhibits the activity of dimeric NF-κB/REL complexes by trapping REL dimers in the cytoplasm through masking of their nuclear localization signals. On cellular stimulation by immune and proinflammatory responses, becomes phosphorylated promoting ubiquitination and degradation, enabling the dimeric RELA to translocate to the nucleus and activate transcription.

Mattioli I, et al. (2004) *J Immunol*; 172(10): 6336-44.

Courtois G, et al. (2003) *J Clin Invest*; 112(7): 1108-15.

Nair A, et al. (2003) *Oncogene*; 22(1): 50-8.

Fan C, et al. (2002) *J Cell Sci*; 115(Pt 24): 4843-53.

Schubert SY, et al. (2002) *FASEB J*; 16(14): 1931-3.

Note: This product is for in vitro research use only