Product Datasheet

IkB-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	IkB-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 IkB-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 IkB-a.
Target Name	IkB-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 Mg2+ and Ca2+), 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

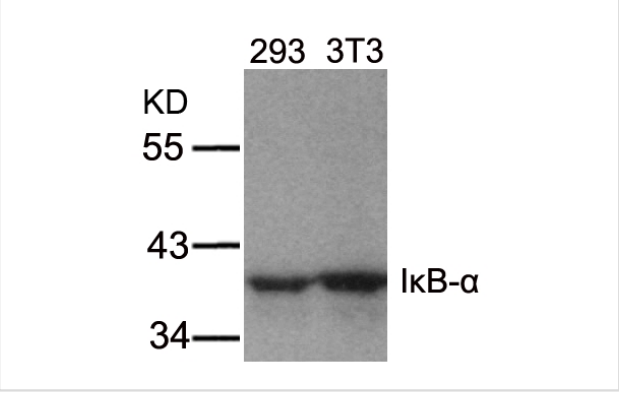
Predicted MW: 39kd

Western blotting: 1:500~1:1000

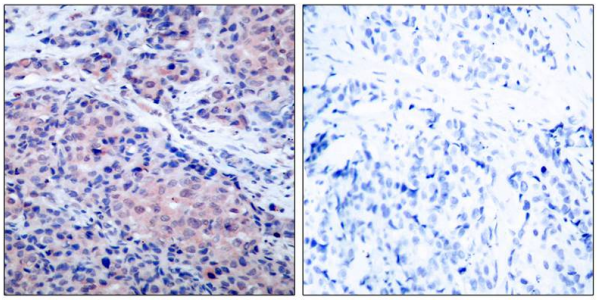
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

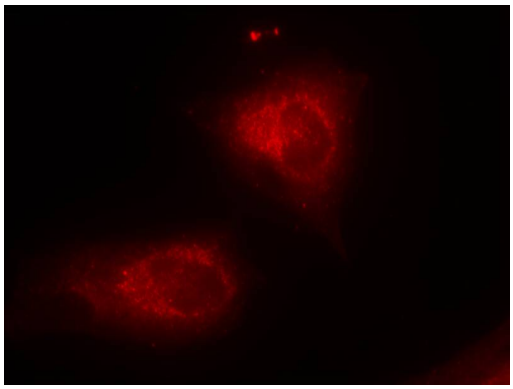
Images



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



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



Immunofluorescence staining of methanol-fixed Hela cells using IkB-a(Ab-32/36) Antibody #21122.

Background

Inhibits the activity of dimeric NF-kappa-B/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 tranlocate 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