

IκB-a(Ab-42) Antibody

Catalog No: #21176



Package Size: #21176-1 50ul #21176-2 100ul

Orders: [order@signalwayantibody.com](mailto:order@signalwayantibody.com)  
Support: [tech@signalwayantibody.com](mailto:tech@signalwayantibody.com)

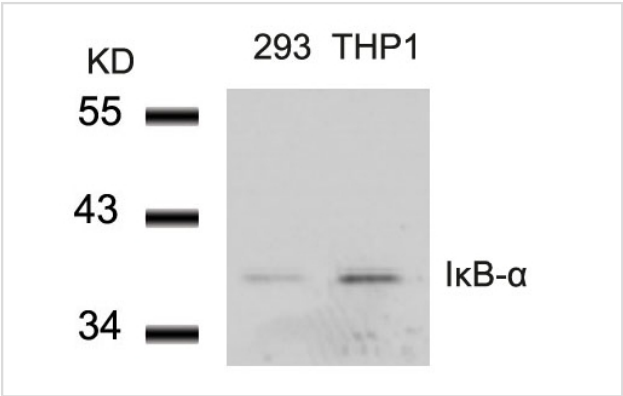
Description

Product Name	IκB-a(Ab-42) 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
Species Reactivity	Hu Ms
Specificity	The antibody detects endogenous level of total IκB-a protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 40~44 (E-E-Y-E-Q) derived from Human IκB-a.
Target Name	IκB-a
Other Names	I-kappa-B-alpha; IKBA; NF-kappaB inhibitor alpha; NFKBI; NFKBIA
Accession No.	Swiss-Prot: P25963NCBI Protein: NP_065390.1
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.

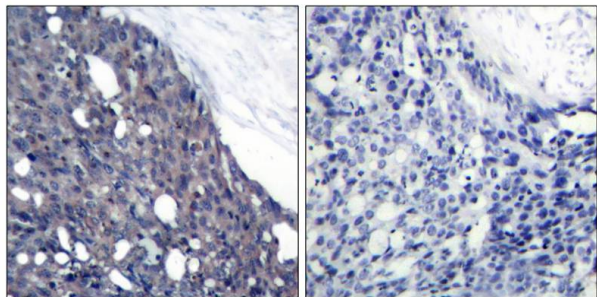
Application Details

Predicted MW: 39kd  
Western blotting: 1:500~1:1000  
Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from 293 and THP1 cells using IκB-a(Ab-42) Antibody #21176.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using IkB-α(Ab-42) Antibody #21176(left) or the same antibody preincubated with blocking peptide(right).

## 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 translocate to the nucleus and activate transcription.

B

## Published Papers

et al., Clonorchis sinensis ferritin heavy chain triggers free radicals and mediates inflammation signaling in human hepatic stellate cells. In Parasitol Res on 2015 Feb by Qiang Mao, Zhizhi Xie et al.. PMID: 25413629, , (2015)

[PMID:25413629](#)

et al., Perfluorocarbon Attenuates Lipopolysaccharide-Mediated Inflammatory Responses of Alveolar Epithelial Cells in Vitro. In Chin Med J (Engl) on 2011 Aug by Shu-Feng Xu, Ping Wang, et al.. PMID:21933601, , (2011)

[PMID:21933601](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.