

IκB-α Antibody

Catalog No: #21122



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

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

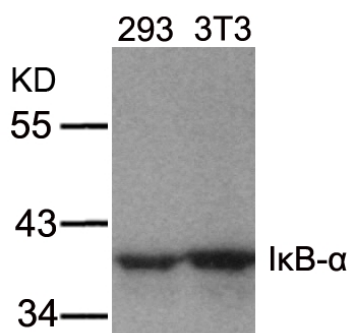
Description

Product Name	IκB-α 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	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total IκB-α 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 IκB-α.
Conjugates	Unconjugated
Target Name	IκB-α
Other Names	I-kappa-B-alpha; IKBA; NF-kappaB inhibitor alpha; NFKBI; NFKBIA
Accession No.	Swiss-Prot: P25963NCBI Protein: NP_065390.1
Calculated MW	35kDa
SDS-PAGE MW	39kDa
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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.

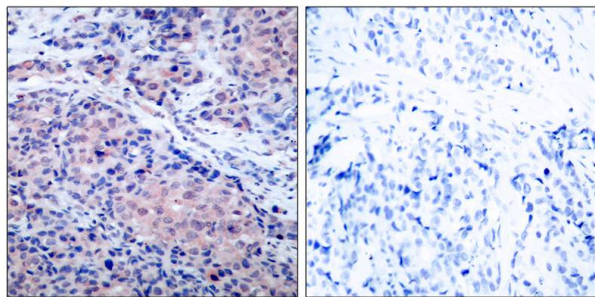
Application Details

WB 1:500-1:2000; IHC 1:50-1:200; IF 1:50-1:200;

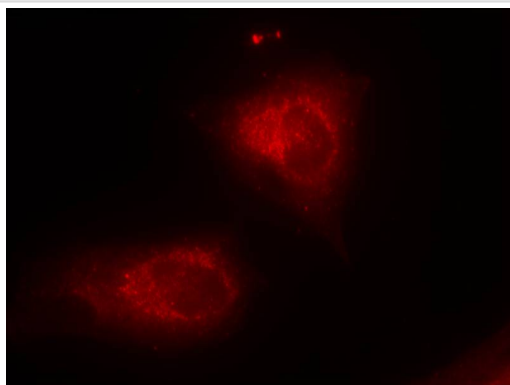
Images



Western blot analysis of extracts from 293 and 3T3 cells using IκB-α(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 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.

Published Papers

el at., Astragalus polysaccharides exerts anti-infective activity by inducing human cathelicidin antimicrobial peptide LL-37 in respiratory epithelial cells. *In Phytother Res*. On 2018 Aug by Zhao L, Tan S et al..PMID: 29672953, , (2018)

[PMID:29672953](#)

el at., Ajudecumin A from *Ajuga ovalifolia* var. *calantha* exhibits anti-inflammatory activity in lipopolysaccharide-activated RAW264.7 murine macrophages and animal models of acute inflammation. *In Pharm Biol*. On 2018 Dec by Zhang H, Ren QC et al..PMID: 31070535, , (2018)

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el at., 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](#)

el at., 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](#)

el at., Costunolide improved dextran sulfate sodium-induced acute ulcerative colitis in mice through NF- κ B, STAT1/3, and Akt signaling pathways. In Int Immunopharmacol on 2020 Jul by Fan Xie, Hai Zhang, et al..PMID:32413737, , (2020)

[PMID:32413737](#)

el at., Indirect effect of PM1 on endothelial cells via Inducing the release of respiratory Inflammatory cytokines. In Toxicol In Vitro on 2019 Jun by Tian G, Wang J, et al..PMID: 30858030, , (2019)

[PMID:30858030](#)

el at., Inhibition of TPL2 by interferon- α suppresses bladder cancer through activation of PDE4D. In J Exp Clin Cancer Res. On 2018 Nov 27 by Qiang Z, Zhou ZY et al..PMID: 30482227, , (2018)

[PMID:30482227](#)

Liyan Niu;Jihao Wei;Xuwen Li;Yongri Jin;Xiaolei Shi el at., Inhibitory activity of narirutin on RBL-2H3 cells degranulation, , (2021)

[PMID:](#)

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