

IκB-a(Phospho-Ser32/Ser36) Antibody

Catalog No: #11152

Package Size: #11152-1 50ul #11152-2 100ul

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Description

Product Name	IκB-a(Phospho-Ser32/Ser36) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide.
Applications	WB IHC IF
Species Reactivity	Human;Mouse
Specificity	The antibody detects endogenous level of IκB-a only when phosphorylated at serine 32/36.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of serine 32/36 (H-D-S(p)-G-L-D-S(p)-M-K) derived from Human IκB-a.
Conjugates	Unconjugated
Target Name	IκB-a
Modification	Phospho
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 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

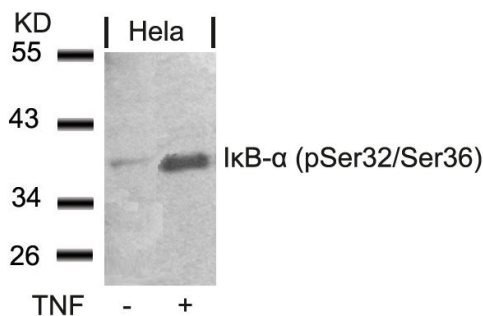
Predicted MW: 39kd

Western blotting: 1:500~1:1000

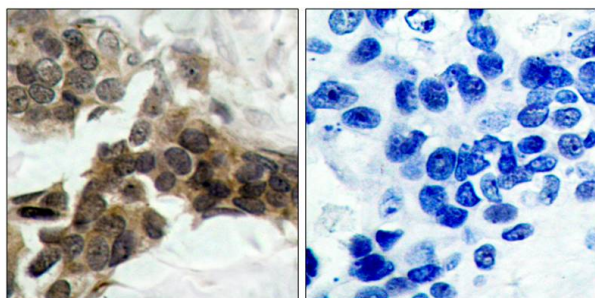
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

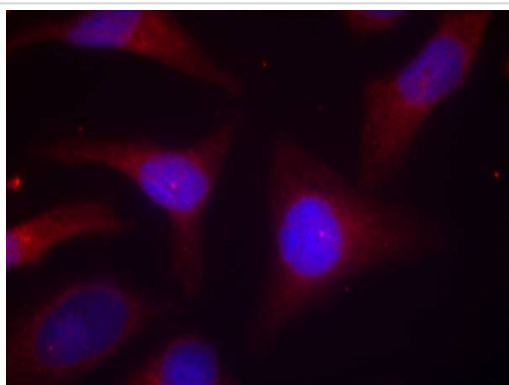
Images



Western blot analysis of extracts from HeLa cells untreated or treated with TNF using IκB-α(Phospho-Ser32/Ser36) Antibody #11152.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using IκB-α(Phospho-Ser32/Ser36) Antibody #11152(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed HeLa cells using IκB-α(Phospho-Ser32/Ser36) Antibody #11152.

Background

Inhibits the activity of dimeric NF-κappa-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.

Shieh, S. Y. et al. (1999) EMBO J. 18, 1815-1823.

Honda, R. et al. (1997) FEBS Lett. 420, 25-27.

Hirao, A. et al. (2000) Science 287, 1824-1827.

Tibbetts, R. S. et al. (1999) Genes Dev. 13, 152-157.

Chehab, N. H. et al. (1999) Proc. Natl. Acad. Sci. USA 96, 13777-13782.

Published Papers

Zhenghua Ren, Jianhua Cui, Zeren Huo et al., Cordycepin suppresses TNF-ε-induced NF-εB activation by reducing p65 transcriptional activity, inhibiting IεB phosphorylation, and blocking IKKε ubiquitination., International Immunopharmacology., 14(4):698-703(2012)

PMID:23102662

et al., Downregulated Expression of Solute Carrier Family 26 Member 6 in NRK-52E Cells Attenuates Oxalate-Induced Intracellular Oxidative Stress. In

Oxid Med Cell Longev. On 2018 Oct 10 by Jiang H, Gao X et al..PMID:30405874, , (2018)

[PMID:30405874](#)

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](#)

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..al PMID: 30858030, , (2019)

[PMID:30858030](#)

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)

[PMID:31070535](#)

el at., HMG2 regulates non-tuberculous mycobacteria survival via modulation of M1 macrophage polarization. In J Cell Mol Med on 2019 Dec by Wang X, Chen S, et al..PMID:31596045, , (2019)

[PMID:31596045](#)

el at., Phytoestrogens protect joints in collagen induced arthritis by increasing IgG glycosylation and reducing osteoclast activation. In Int Immunopharmacol on 2020 Mar 12 by Du N, Song L, et al..PMID:32172207, , (2020)

[PMID:32172207](#)

el at., Cordycepin Suppresses TNF- δ O δ -induced NF- κ B Activation by Reducing p65 Transcriptional Activity, Inhibiting I κ B δ O δ Phosphorylation, and Blocking IKK η 1 δ Ubiquitination. In Int Immunopharmacol on 2012 Dec by Zhenghua Ren, Jianhua Cui, et al..PMID:23102662, , (2012)

[PMID:23102662](#)

el at., Angiotensin II Induces Connective Tissue Growth Factor Expression in Human Hepatic Stellate Cells by a Transforming Growth Factor ϵ δ -Y-Independent Mechanism. In Sci Rep on 2017 Aug 10 by Ao Li Jingyao Zhang, et al..PMID: 28798388, , (2017)

[PMID:28798388](#)

el at., Inhibitory effects of eugenol on RANKL-induced osteoclast formation via attenuation of NF- κ B and MAPK pathways. In Connect Tissue Res on 2015 Jun by Vishwa Deepak , Abe Kasonga et al..PMID:25405641, , (2015)

[PMID:25405641](#)

el at., Piperine alleviates osteoclast formation through the p38/ci δ os/NFATc1 signaling axis. In Biofactors on Nov-Dec 2015 by Vishwa Deepak , Marlena C Kruger et al..PMID: 26627060, , (2015)

[PMID:26627060](#)

el at., Rumen-derived lipopolysaccharide enhances the expression of lingual antimicrobial peptide in mammary glands of dairy cows fed a high-concentrate diet. In BMC Vet Res on 2016 Jun 27 by Di Jin, Guangjun Chang et al..PMID: 27350130, , (2016)

[PMID:27350130](#)

el at., Protodioscin ameliorates fructose-induced renal injury via inhibition of the mitogen activated protein kinase pathway. In Phytomedicine on 2016 Nov 15 by Jinyang Shen, Xiaolin Yang et al..PMID:27765371, , (2016)

[PMID:27765371](#)

el at., Monotropein alleviates secondary liver injury in chronic colitis by regulating TLR4/NF- κ B signaling and NLRP3 inflammasome . In Eur J Pharmacol on 2020 Sep 15 by Yonger Chen , Yingyu Lu, et al..PMID:32710952, , (2020), , (2020)

[PMID:32710952](#)

el at., Cetuximab enhances oridonin-induced apoptosis through mitochondrial pathway and endoplasmic reticulum stress in laryngeal squamous cell carcinoma cells. In Toxicol In Vitro on 2020 May 12 by Ning Kang, Shijie Cao, et al..PMID:32407876, , (2020)

[PMID:32407876](#)

el at., Vitexin Protects against Dextran Sodium Sulfate-Induced Colitis in Mice and Its Potential Mechanisms. In J Agric Food Chem on 2022 Sep 28 by Jing Zhang, Feilin Liang, et al..PMID: 36124900, , (2022)

PMID:36124900

Wang Zhiqiang;Liang Gaoshuang;Peng Jinying;Gu Yiyang;Zhang Xiangwen;Ding Cong;Yu Tingzi;Li Zhuan et al., Sirtuin 7 Promotes Alcohol-Associated Liver Injury via Modulating Myeloid Cell Chemokine (C-C Motif) Ligand 2 Secretion through the NF- κ B Signaling Pathway, , (2025)

PMID:

Zhiqiang Wang;Gaoshuang Liang;Jinying Peng;Yiyang Gu;Xiangwen Zhang;Cong Ding;Tingzi Yu;Zhuan Li et al., Sirtuin 7 Promotes Alcohol-Associated Liver Injury via Modulating Myeloid Cell Chemokine (C-C Motif) Ligand 2 Secretion through the NF- κ B Signaling Pathway., , (2025)

PMID:39746506

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