Product Datasheet

IKB alpha Rabbit mAb

Catalog No: #48695

Package Size: #48695-1 50ul #48695-2 100ul

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

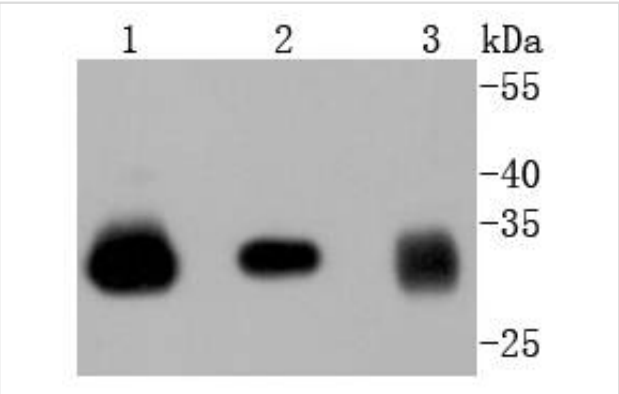
Description

Product Name	IKB alpha Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SZ00-07
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP
Species Reactivity	Human;Mouse;Rat
Immunogen Description	recombinant protein
Conjugates	Unconjugated
Other Names	I kappa B alpha antibody I-kappa-B-alpha antibody IkappaBalpha antibody IkB-alpha antibody IKBA antibody IKBA_HUMAN antibody IKBalpha antibody MAD 3 antibody MAD3 antibody Major histocompatibility complex enhancer-binding protein MAD3 antibody NF kappa B inhibitor alpha antibody NF-kappa-B inhibitor alpha antibody NFKBI antibody NFKBIA antibody Nuclear factor of kappa light chain gene enhancer in B cells antibody Nuclear factor of kappa light polypeptide gene enhancer in B cells inhibitor alpha antibody
Accession No.	Swiss-Prot#:P25963
Calculated MW	34 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

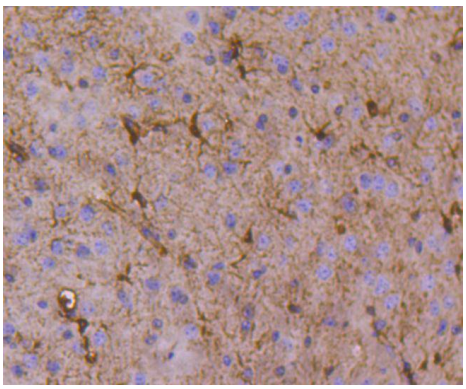
Application Details

WB: 1:1,000-5,000IHC: 1:50-1:200ICC: 1:50-1:200

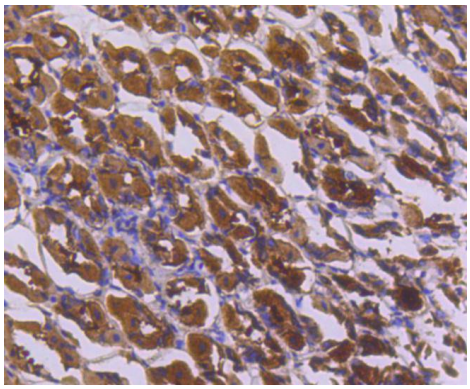
Images



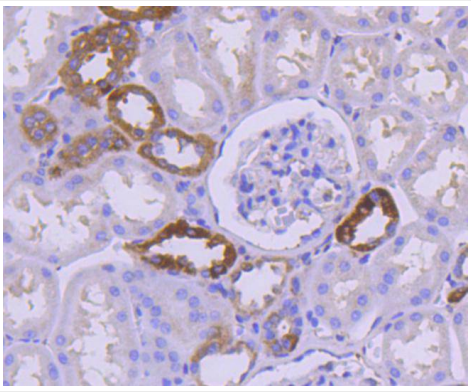
Western blot analysis of IKB alpha on different lysates using anti-IKB alpha antibody at 1/1,000 dilution. Positive control:
Lane 1: PC-12 Lane 2: NIH/3T3 Lane 3: Hela



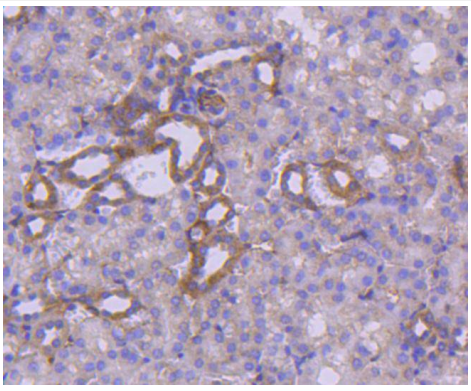
Immunohistochemical analysis of paraffin-embedded mouse brain tissue using anti-IKB alpha antibody. Counter stained with hematoxylin.



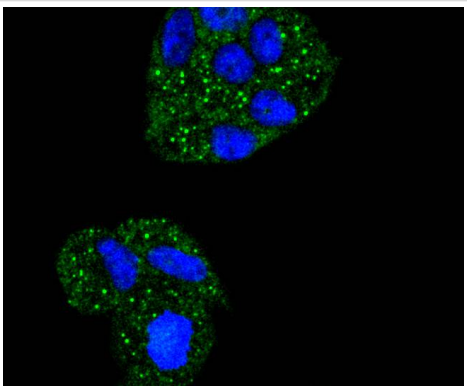
Immunohistochemical analysis of paraffin-embedded mouse stomach tissue using anti-IKB alpha antibody. Counter stained with hematoxylin.



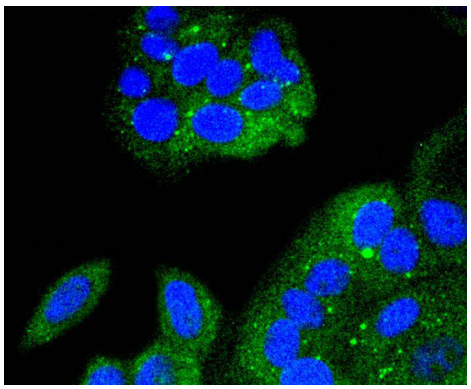
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-IKB alpha antibody. Counter stained with hematoxylin.



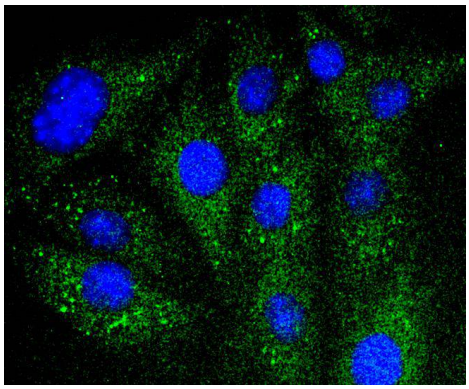
Immunohistochemical analysis of paraffin-embedded mouse kidney tissue using anti-IKB alpha antibody. Counter stained with hematoxylin.



ICC staining IKB alpha in Hela cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining IKB alpha in MCF-7 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining IKB alpha in SHG-44 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.

Background

NFKB1 or NFKB2 is bound to REL, RELA, or RELB to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins, which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation of the NF-kappa-B complex. Activated NFKB complex translocates into the nucleus and binds DNA at kappa-B-binding motifs such as 5-prime GGGRNNYYCC 3-prime or 5-prime HGGARNYYCC 3-prime.

References

1. Bai X et al. Prostaglandin E2 stimulates ?1-integrin expression in hepatocellular carcinoma through the EP1 receptor/PKC/NF-?B pathway. Sci Rep 4:6538 (2014). 2. Broderick TL et al. Downregulation in GATA4 and Downstream Structural and Contractile Genes in the db/db Mouse Heart. ISRN Endocrinol 2012:736860 (2012).

Published Papers

el at., Gingerenone A Attenuates Ulcerative Colitis via Targeting IL-17RA to Inhibit Inflammation and Restore Intestinal Barrier Function. In Adv Sci (Weinh) on 2024 Jul by Jian Liang, Weigang Dai,et al..PMID:38639442, , (2024)

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Zhang Jing, Lin Xiaohe, Song Huaying, Xie Yumin, Hou Shaozhen, Huang Song, Du Xianhua, Li Hailun, Han Yun, Liang Jian, Jiang Xiaoyan el at., Dendrobium officinale polysaccharide inhibits M1 macrophage polarization via activating SENP1-SIRT3 signaling and alleviates ulcerative colitis, Food research international (Ottawa, Ont.), (2025)

PMID:41185333

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