



Datasheet for ABIN6256667
anti-IKBKB antibody (pTyr199)



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4 Images

1 Publication

Overview

Quantity:	100 µL
Target:	IKBKB
Binding Specificity:	pTyr199
Reactivity:	Human, Mouse, Rat, Monkey
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IKBKB antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human IKK- beta around the phosphorylation site of Tyrosine 199
Isotype:	IgG
Specificity:	Phospho-IKK- beta (Tyr199) Antibody detects endogenous levels of IKK- beta only when phosphorylated at Tyrosine 199
Cross-Reactivity:	Human, Monkey, Mouse (Murine), Rat (Rattus)
Purification:	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.

Target Details

Target: IKBKB

Alternative Name: IKK beta ([IKKBK Products](#))

Background: Description: Serine kinase that plays an essential role in the NF-kappa-B signaling pathway which is activated by multiple stimuli such as inflammatory cytokines, bacterial or viral products, DNA damages or other cellular stresses. Acts as part of the canonical IKK complex in the conventional pathway of NF-kappa-B activation and phosphorylates inhibitors of NF-kappa-B on 2 critical serine residues. These modifications allow polyubiquitination of the inhibitors and subsequent degradation by the proteasome. In turn, free NF-kappa-B is translocated into the nucleus and activates the transcription of hundreds of genes involved in immune response, growth control, or protection against apoptosis. In addition to the NF-kappa-B inhibitors, phosphorylates several other components of the signaling pathway including NEMO/IKBKG, NF-kappa-B subunits RELA and NFKB1, as well as IKK-related kinases TBK1 and IKBKE. IKK-related kinase phosphorylations may prevent the overproduction of inflammatory mediators since they exert a negative regulation on canonical IKKs. Phosphorylates FOXO3, mediating the TNF-dependent inactivation of this pro-apoptotic transcription factor. Also phosphorylates other substrates including NCOA3, BCL10 and IRS1. Within the nucleus, acts as an adapter protein for NFKBIA degradation in UV-induced NF-kappa-B activation.

Gene: IKBKB

Molecular Weight: 85kDa

Gene ID: 3551

UniProt: [014920](#)

Pathways: [NF-kappaB Signaling](#), [RTK Signaling](#), [TCR Signaling](#), [TLR Signaling](#), [Fc-epsilon Receptor Signaling Pathway](#), [Neurotrophin Signaling Pathway](#), [Activation of Innate immune Response](#), [Production of Molecular Mediator of Immune Response](#), [Hepatitis C](#), [Toll-Like Receptors Cascades](#), [BCR Signaling](#), [Ubiquitin Proteasome Pathway](#), [S100 Proteins](#)

Application Details

Application Notes: WB 1:500-1:2000 IHC 1:50-1:200, IF/ICC 1:100-1:500

Restrictions: For Research Use only

Handling

Format: Liquid

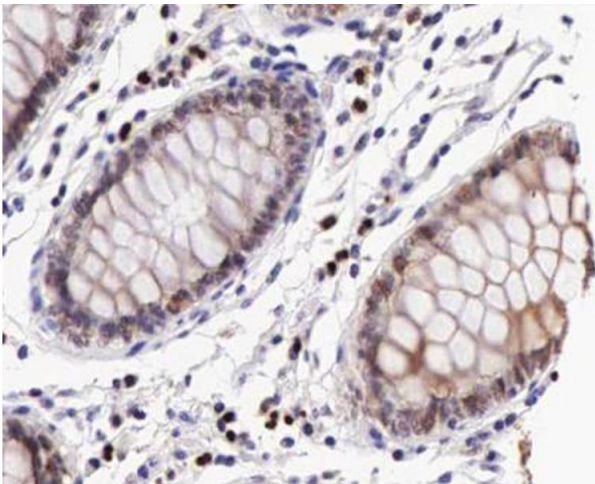
Handling

Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Store at -20 °C.Stable for 12 months from date of receipt
Expiry Date:	12 months

Publications

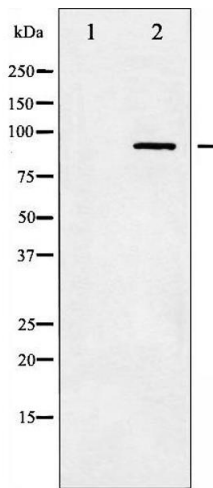
Product cited in: Liu, Li, Shu, Xiao, Feng: "Ephrin-b3 modulates hippocampal neurogenesis and the reelin signaling pathway in a pilocarpine-induced model of epilepsy." in: **International journal of molecular medicine**, Vol. 41, Issue 6, pp. 3457-3467, (2018) ([PubMed](#)).

Images



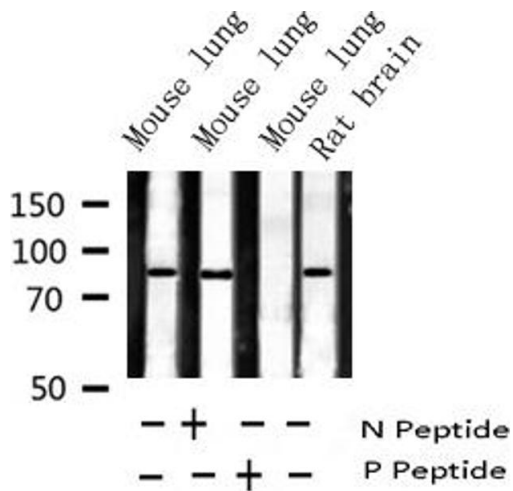
Immunohistochemistry

Image 1. ABIN6267227 at 1/200 staining human colon cancer tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Western Blotting

Image 2. Western blot analysis of IKK- beta phosphorylation expression in TNF-a treated HeLa whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



Western Blotting

Image 3. Western blot analysis of Phospho-IKK beta (Tyr199) expression in various lysates

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6256667.