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Datasheet for ABIN7127566 Recombinant anti-IKBKB antibody

3 Images



Overview

Quantity:	100 µL
Target:	IKBKB
Reactivity:	Human
Host:	Rabbit
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This IKBKB antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	A synthesized peptide derived from human IKK beta
Clone:	3E1
Isotype:	lgG
Cross-Reactivity:	Human
Purification:	Affinity-chromatography

Target Details

Target:	IKBKB
Alternative Name:	IKBKB (IKBKB Products)
Background:	Background: Serine kinase that plays an essential role in the NF-kappa-B signaling pathway

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	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.
	Aliases: Inhibitor of nuclear factor kappa-B kinase subunit beta (I-kappa-B-kinase beta) (IKK-B)
	(IKK-beta) (IkBKB) (EC 2.7.11.10) (I-kappa-B kinase 2) (IKK2) (Nuclear factor NF-kappa-B
	inhibitor kinase beta) (NFKBIKB), IKBKB, IKKB
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

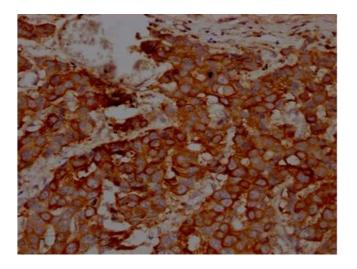
Application Notes:	Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:200, IF:1:20-1:200,
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Rabbit IgG in phosphate buffered saline, pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which

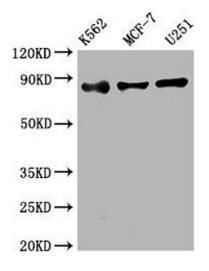
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Handling

should be handled by trained staff only.Storage:-20 °C,-80 °CStorage Comment:Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images





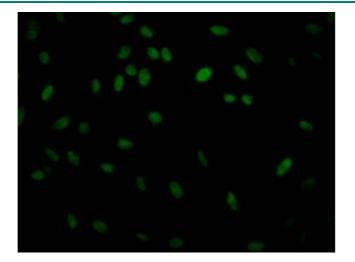
Immunohistochemistry

Image 1. IHC image of ABIN7127566 diluted at 1:100 and staining in paraffin-embedded human breast cancer performed on a Leica BondTM system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10 % normal goat serum 30 min at RT. Then primary antibody (1 % BSA) was incubated at 4 °C overnight. The primary is detected by a Goat anti-rabbit IgG polymer labeled by HRP and visualized using 0.05 % DAB.

Western Blotting

Image 2. Western Blot Positive WB detected in: K562 whole cell lysate, MCF-7 whole cell lysate, U251 whole cell lysate All lanes: IKK beta antibody at 1:2000 Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 87 kDa Observed band size: 87 kDa

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Immunofluorescence

Image 3. Immunofluorescence staining of Hela Cells with ABIN7127566 at 1:50, counter-stained with DAPI. The cells were fixed in 4 % formaldehyde, permeated by 0.2 % TritonX-100, and blocked in 10 % normal Goat Serum. The cells were then incubated with the antibody overnight at 4 °C. Nuclear DNA was labeled in blue with DAPI. The secondary antibody was FITC-conjugated AffiniPure Goat Anti-Rabbit IgG (H+L).

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