Datasheet for ABIN7156261

anti-IKBKB antibody (AA 395-588)

3 Images

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Overview

Quantity:	100 µg
Target:	IKBKB
Binding Specificity:	AA 395-588
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IKBKB antibody is un-conjugated
Application:	ELISA, Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant Human Inhibitor of nuclear factor kappa-B kinase subunit beta protein (395-588AA)
Isotype:	IgG
Cross-Reactivity:	Human
Purification:	>95%, Protein G purified

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

Target Details

	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: I kappa B kinase 2 antibody, I kappa B kinase beta antibody, I-kappa-B kinase 2 antibody, I-kappa-B-kinase beta antibody, IkBKB antibody, IKK beta antibody, IKK-B antibody, IKK-beta antibody, IKK2 antibody, IKKB antibody, IKKB_HUMAN antibody, IMD15 antibody, Inhibitor of kappa light polypeptide gene enhancer in B cells, kinase beta antibody, Inhibitor of nuclear factor kappa-B kinase subunit beta antibody, NFKBIKB antibody, Nuclear factor NF-kappa-B inhibitor kinase beta antibody
UniProt:	O14920
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:1:500-1:1000, IF:1:50-1:200,
Restrictions:	For Research Use only

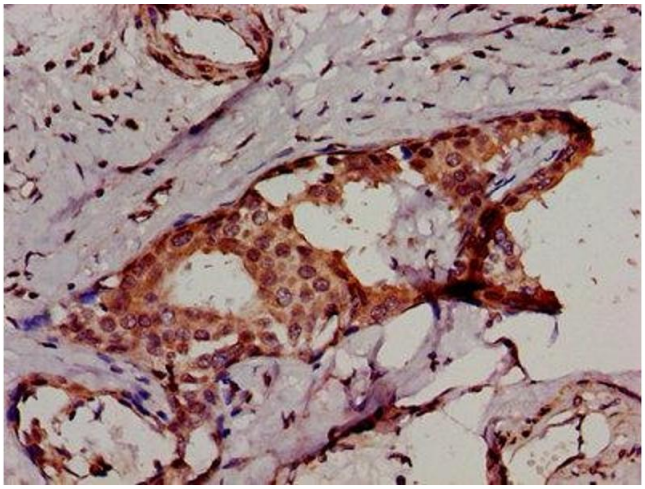
Handling

Format:	Liquid
Buffer:	Preservative: 0.03 % Proclin 300

Handling

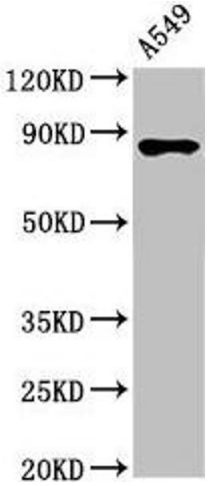
	Constituents: 50 % Glycerol, 0.01M PBS, pH 7.4
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C,-80 °C
Storage Comment:	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.

Images



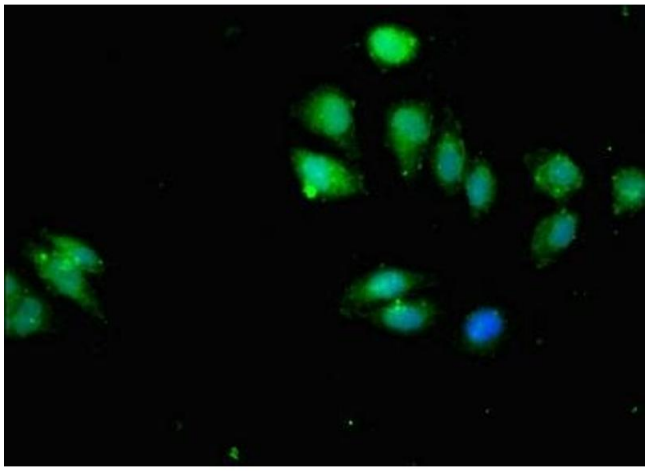
Immunohistochemistry

Image 1. IHC image of ABIN7156261 diluted at 1:500 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 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized using an HRP conjugated SP system.



Western Blotting

Image 2. Western Blot Positive WB detected in: A549 whole cell lysate All lanes: IKBKB antibody at 3.4 µg/mL Secondary Goat polyclonal to rabbit IgG at 1/50000 dilution Predicted band size: 87, 86, 30, 80 kDa Observed band size: 87 kDa



Immunofluorescence

Image 3. Immunofluorescent analysis of A549 cells using ABIN7156261 at dilution of 1:100 and Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L)

