

Datasheet for ABIN1881451
anti-IKKB antibody (pThr180)



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Overview

Quantity:	400 µL
Target:	IKKB
Binding Specificity:	pThr180
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IKKB antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This IKKB Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding T180 of human IKKB.
Clone:	RB30629
Isotype:	Ig Fraction
Predicted Reactivity:	B, C, Zf, M, X, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	IKKB
Alternative Name:	IKKB (IKKB Products)

Target Details

Background:	NFKB1 (MIM 164011) or NFKB2 (MIM 164012) is bound to REL (MIM 164910), RELA (MIM 164014), or RELB (MIM 604758) to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA, MIM 164008, or NFKBIB, MIM 604495), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, MIM 600664, or IKBKB) 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 (where H is A, C, or T, R is an A or G purine, and Y is a C or T pyrimidine).
Molecular Weight:	86564
NCBI Accession:	NP_001177649 , NP_001229707 , NP_001547
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:	DB: 1:500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
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:	4 °C,-20 °C
Expiry Date:	6 months

Publications

Product cited in: Yatherajam, Banerjee, McCorkell, Solt, Hanson, Madge, Kang, Worley, Orange, May: "Cutting edge: association with I kappa B kinase beta regulates the subcellular localization of Homer3." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 185, Issue 5, pp. 2665-9, (2010) ([PubMed](#)).

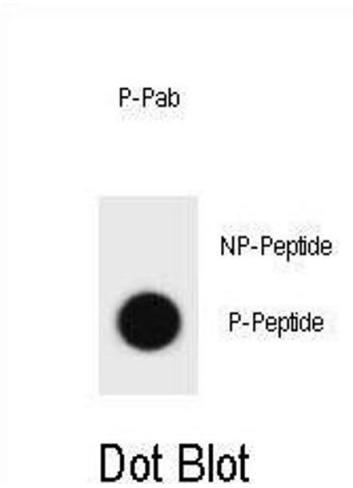
Kenneth, Mudie, Rocha: "IKK and NF-kappaB-mediated regulation of Claspin impacts on ATR checkpoint function." in: **The EMBO journal**, Vol. 29, Issue 17, pp. 2966-78, (2010) ([PubMed](#)).

Zhao, Li, Chen: "CC2D1A, a DM14 and C2 domain protein, activates NF-kappaB through the canonical pathway." in: **The Journal of biological chemistry**, Vol. 285, Issue 32, pp. 24372-80, (2010) ([PubMed](#)).

Niida, Tanaka, Kamitani: "Downregulation of active IKK beta by Ro52-mediated autophagy." in: **Molecular immunology**, Vol. 47, Issue 14, pp. 2378-87, (2010) ([PubMed](#)).

Schuurhof, Bont, Siezen, Hodemaekers, van Houwelingen, Kimman, Hoebee, Kimpen, Janssen: "Interleukin-9 polymorphism in infants with respiratory syncytial virus infection: an opposite effect in boys and girls." in: **Pediatric pulmonology**, Vol. 45, Issue 6, pp. 608-13, (2010) ([PubMed](#)).

Images



Dot Blot

Image 1. Dot blot analysis of IKKB Antibody (Phospho) Phospho-specific Pab (ABIN1881451 and ABIN2850470) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.6 µg per ml.