

Datasheet for ABIN1881452

anti-IKBKB antibody (pSer701)[Go to Product page](#)**1** Image**4** Publications

Overview

Quantity:	400 µL
Target:	IKBKB
Binding Specificity:	pSer701
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This IKBKB antibody is un-conjugated
Application:	Dot Blot (DB)

Product Details

Immunogen:	This mouse IKKB Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S701 of mouse IKKB.
Clone:	RB40105
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	IKBKB
Alternative Name:	IKKB (IKBKB 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: 86690

NCBI Accession: [NP_034676](#)

UniProt: [O88351](#)

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

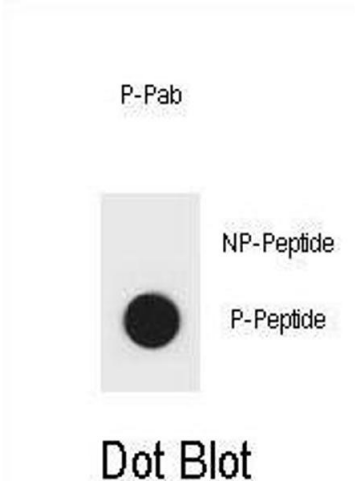
Product cited in: Busuttil, Droin, McCormick, Bernassola, Candi, Melino, Green: "NF-kappaB inhibits T-cell activation-induced, p73-dependent cell death by induction of MDM2." in: **Proceedings of the National Academy of Sciences of the United States of America**, Vol. 107, Issue 42, pp. 18061-6, (2010) ([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](#)).

Tsuchiya, Asano, Nakayama, Kato, Karin, Kamata: "Nuclear IKKbeta is an adaptor protein for IkappaBalpha ubiquitination and degradation in UV-induced NF-kappaB activation." in: **Molecular cell**, Vol. 39, Issue 4, pp. 570-82, (2010) ([PubMed](#)).

Farlik, Reutterer, Schindler, Greten, Vogl, Müller, Decker: "Nonconventional initiation complex assembly by STAT and NF-kappaB transcription factors regulates nitric oxide synthase expression." in: **Immunity**, Vol. 33, Issue 1, pp. 25-34, (2010) ([PubMed](#)).

Images



Dot Blot

Image 1. Dot blot analysis of mouse IKKB Antibody (Phospho) Phospho-specific Pab (ABIN1881452 and ABIN2839957) 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.