Datasheet for ABIN2792229

anti-NFKBIA antibody (Middle Region)

2 Images

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Overview

Quantity:	100 µL
Target:	NFKBIA
Binding Specificity:	Middle Region
Reactivity:	Human, Mouse, Rat, Cow, Pig, Sheep, Dog, Horse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This NFKBIA antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the middle region of human NFKBIA
Sequence:	SPYQLTWGRP STRIQQQLGQ LTLENLQMLP ESEDEESYDT ESEFTEFTED
Predicted Reactivity:	Cow: 100%, Dog: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rat: 100%, Sheep: 100%
Characteristics:	This is a rabbit polyclonal antibody against NFKBIA. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	NFKBIA

Target Details

Alternative Name:	NFKBIA (NFKBIA Products)
Background:	NFKB1 or NFKB2 is bound to REL, RELA, or RELB to form the NFKB complex. The NFKB complex is inhibited by I-kappa-B proteins (NFKBIA or NFKBIB), which inactivate NF-kappa-B by trapping it in the cytoplasm. Phosphorylation of serine residues on the I-kappa-B proteins by kinases (IKBKA, 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). 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 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, MIM 603258) 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).[supplied by OMIM]. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: IKBA, MAD-3, NFKBI Protein Interaction Partner: BTRC, NEDD9, IKBKB, CHUK, UBC, MTOR, IKBKG, SKP1, FBXW11, UBE2D3, RELA, NPLOC4, VCP, UFD1L, NFKB1, TNF, SUMO1, UBE2D1, COPS3, GPS1, SUMO3, Csnk2b, PRKCA, ST7, STAT1, REL, POLR2C, CD7, ARRB2, ARRB1, SUMO2, PSMA1, ZNF212, IKZF4, ATF4, TBK1, IKBKE, DNAJA3, S Protein Size: 317
Molecular Weight:	35 kDa
Gene ID:	4792
NCBI Accession:	NM_020529, NP_065390
UniProt:	P25963
Pathways:	NF-kappaB Signaling, TCR Signaling, TLR Signaling, Fc-epsilon Receptor Signaling Pathway, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Maintenance of Protein Location, Hepatitis C, Protein targeting to Nucleus, Toll-Like Receptors Cascades, BCR Signaling

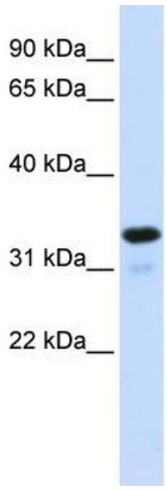
Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 317 AA
Restrictions:	For Research Use only

Handling

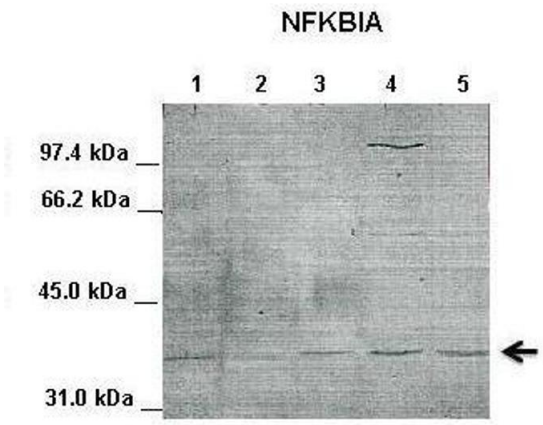
Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Images



Western Blotting

Image 1. WB Suggested Anti-NFKBIA Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:62500 Positive Control: 293T cell lysate



See Immunoblot 2 Data and Customer Feedback for more information

Western Blotting

Image 2. Lanes: 1. 100 ug mouse heart lysate 2. 100 ug mouse kidney lysate 3. 100 ug mouse lung lysate 4. 100 ug mouse thymus lysate 5. 100 ug mouse spleen lysate Primary Antibody Dilution: 1:1000 Secondary Antibody: Anti-rabbit-AP Secondary Antibody Dilution: 1:10000 Gene Name: NFKBIA Submitted by: Andreia Carvalho, Instituto de Biologia Molecular e Celular, Universidade do Porto (IBMC-UP)/Organelle Biogenesis and Function (OBF) Group