

Rabbit anti-Human, Mouse RelB Polyclonal Antibody | anti-RelB antibody

Phospho-RelB (Ser552) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321678	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

RelB; Polyclonal Antibody; Phospho-RelB (Ser552) Antibody; I REL; I-Rel; IREL; Nuclear factor of kappa light polypeptide gene enhancer in B cells 3; relB; RELB_HUMAN; Reticuloendotheliosis viral oncogene homolog B; Transcription factor Rel B; Transcription factor RelB; v rel avian reticuloendotheliosis viral oncogene homolog B; v rel reticuloendotheliosis viral oncogene homolog B; anti-RelB antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	Phospho-RelB (Ser552) antibody detects endogenous levels of RelB only when phosphorylated at Serine 552
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	579
Applicable Applications for anti-RelB antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RelB around the phosphorylation site of Serine 552
Subcellular Location	Nucleus. Cytoplasm > Cytoskeleton > Centrosome. Co-localizes with NEK6 in the centrosome.
Tissue Specificity	Up-regulated by mitogens and NUPR1.
Predicted Cross Reactivity	Pig, Bovine, Horse, Sheep, Dog
Similarity	Pig (90%), Bovine (100%), Horse (100%), Sheep (100%), Dog (100%)
Conjugation	Unconjugated
Epitope	Phospho Ser552
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321678 staining HepG2 by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.



WB (Western Blot)

Western blot analysis of Phospho-RelB (Ser552) expression in various lysates



WB (Western Blot)

Western blot analysis of RelB phosphorylation expression in HepG2 whole cell lysates, The lane on the left is treated with the antigen-specific peptide.



IHC (Immunohistochemistry)

AAA321678 at 1/100 staining human kidney tissue sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

ADDITIONAL INFORMATION

Related Product Information for anti-RelB antibody

Description: RelB a transcription factor of the nuclear factor-kappaB (NFkB) transcription complex. Stimulates promoter activity in the presence NFkB1/NFkB-p50. Plays role in regulation of apoptosis in hepatocellular carcinoma through activation of downstream target genes.

Function: NF-kappa-B is a pleiotropic transcription factor which is present in almost all cell types and is involved in many biological processes such as inflammation, immunity, differentiation, cell growth, tumorigenesis and apoptosis. NF-kappa-B is a homo- or heterodimeric complex formed by the Rel-like domain-containing proteins RELA/p65, RELB, NFkB1/p105, NFkB1/p50, REL and NFkB2/p52. The dimers bind at kappa-B sites in the DNA of their target genes and the individual dimers have distinct preferences for different kappa-B sites that they can bind with distinguishable affinity and specificity. Different dimer combinations act as transcriptional activators or repressors, respectively. NF-kappa-B is controlled by various mechanisms of post-translational modification and subcellular compartmentalization as well as by interactions with other cofactors or corepressors. NF-kappa-B complexes are held in the cytoplasm in an inactive state complexed with members of the NF-kappa-B inhibitor (I-kappa-B) family. In a conventional activation pathway, I-kappa-B is phosphorylated by I-kappa-B kinases (IKKs) in response to different activators, subsequently degraded thus liberating the active NF-kappa-B complex which translocates to the nucleus. NF-kappa-B heterodimeric RelB-p50 and RelB-p52 complexes are transcriptional activators. RELB neither associates with DNA nor with RELA/p65 or REL. Stimulates promoter activity in the presence of NFkB2/p49. As a member of the NUPR1/RELB/IER3 survival pathway, may provide pancreatic ductal adenocarcinoma with remarkable resistance to cell stress, such as starvation or gemcitabine treatment. Regulates the circadian clock by repressing the transcriptional activator activity of the CLOCK-ARNTL/BMAL1 heterodimer in a CRY1/CRY2 independent manner. Increased repression of the heterodimer is seen in the presence of NFkB2/p52. Is required for both T and B lymphocyte maturation and function (PubMed:26385063).

Subunit Structure: Component of the NF-kappa-B RelB-p50 complex. Component of the NF-kappa-B RelB-p52 complex. Self-associates; the interaction seems to be transient and may prevent degradation allowing for heterodimer formation with p50 or p52. Interacts with NFkB1/p50, NFkB2/p52 and NFkB2/p100. Interacts with NFkBID. Interacts with ARNTL/BMAL1 and the interaction is enhanced in the presence of CLOCK (By similarity).

Post-translational Modifications: Phosphorylation at 'Thr-103' and 'Ser-573' is followed by proteasomal degradation.

Similarity: Both N- and C-terminal domains are required for transcriptional activation.

NCBI AND UNIPROT INFORMATION

NCBI GI #	35493878
NCBI GeneID	5971
NCBI Accession #	NP_006500.2
NCBI GenBank Nucleotide #	NM_006509.3

UniProt Accession #	Q01201 ; Q6GTX7 ; Q9UEI7
Molecular Weight	Observed: 70 kDa Predicted: 63 kDa
NCBI Official Full Name	transcription factor RelB
NCBI Official Synonym Full Names	RELB proto-oncogene, NF-kB subunit
NCBI Official Symbol	RELB
NCBI Official Synonym Symbols	IREL; I-REL; IMD53; REL-B
NCBI Protein Information	transcription factor RelB
UniProt Protein Name	Transcription factor RelB
UniProt Gene Name	RELB

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/releb-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321678>