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Rabbit Anti-IkB beta antibody

SL10246R

Product Name	IkB beta
Chinese Name	NF-kappa-B 抑制子 beta 抗体
Alias	I kappa B beta; I-kappa-B-beta; IkappaBbeta; IKB beta; IkB-B; IkB-beta; IKBB; IKBB_HUMA kappa BIB; NF-kappa-B inhibitor beta; NF-kappa-BIB; Nfkbib; Thyroid receptor interacting pro receptor-interacting protein 9; TR interacting protein 9; TR-interacting protein 9; TRIP-9; TRIP9 Iκ B-β; Iκ B β;
Research Area	Cell biology immunology Chromatin and nuclear signals Signal transduction Epigenetics
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Dog, Pig, Horse,)
Applications	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	38kDa
Cellular localization	The nucleus cytoplasmic
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human IkB beta: 165-250/356
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Attention	This product as supplied is intended for research use only, not for use in human, therapeutic or d applications.

PubMed

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The protein encoded by this gene belongs to the NF-kappa-B inhibitor family, which inhibit NF-
complexing with, and trapping it in the cytoplasm. Phosphorylation of serine residues on these p
kinases marks them for destruction via the ubiquitination pathway, thereby allowing activation o
NF-kappa-B, which translocates to the nucleus to function as a transcription factor. Alternatively
transcript variants have been found for this gene.[provided by RefSeq, Jul 2011].

Product Detail

Function:
Inhibits NF-kappa-B by complexing with and trapping it in the cytoplasm. However, the unphosp
resynthesized after cell stimulation is able to bind NF-kappa-B allowing its transport to the nucle
protecting it to further NFKBIA-dependent inactivation. Association with inhibitor kappa B-inte
NKIRAS1 and NKIRAS2 prevent its phosphorylation rendering it more resistant to degradation,
slower degradation.

Subunit:
Interacts with THRB (via ligand-binding domain). Interacts with RELA and REL. Interacts with
inhibitor kappa B-interacting Ras-like NKIRAS1 and NKIRAS2.

Subcellular Location:
Cytoplasm. Nucleus.

Tissue Specificity:
Expressed in all tissues examined.

Post-translational modifications:
Phosphorylated by RPS6KA1; followed by degradation. Interaction with NKIRAS1 and NKIRA
prevents phosphorylation.

Similarity:
Belongs to the NF-kappa-B inhibitor family.
Contains 6 ANK repeats.

SWISS:
Q15653

Gene ID:
4793

Database links:

Entrez Gene: 4793 Human

Entrez Gene: 18036 Mouse

Entrez Gene: 81525 Rat

Omim: 604495 Human

SwissProt: Q15653 Human

SwissProt: Q60778 Mouse

SwissProt: Q9JIA3 Rat

Unigene: 9731 Human

Unigene: 220333 Mouse

Unigene: 8395 Rat