

Rabbit anti-Human, Mouse RIOK3 Polyclonal Antibody | anti-RIOK3 antibody

RIOK3 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA327631	Rabbit	Human, Mouse	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

RIOK3; Polyclonal Antibody; RIOK3 Antibody; Homolog of the Aspergillus nidulans sudD gene product; RIO kinase 3 (yeast); RIO kinase 3; RIOK3_HUMAN; Serine/threonine protein kinase RIO3; Serine/threonine-protein kinase RIO3; SudD (suppressor of bimD6; Aspergillus nidulans) homolog; SUDD; sudD homolog; SudD suppressor of Aspergillus nidulans bimD6 homolog; SudD suppressor of bimD6 homolog; anti-RIOK3 antibody

PRODUCT SPECIFICATIONS

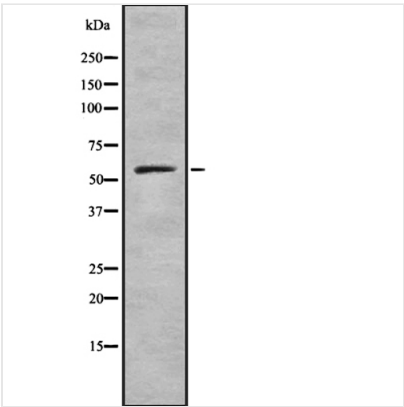
Host	Rabbit
Reactivity	Human, Mouse
Clonality	Polyclonal
Isotype	IgG
Specificity	RIOK3 antibody detects endogenous levels of total RIOK3
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	519
Applicable Applications for anti-RIOK3 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human RIOK3
Tissue Specificity	Widely expressed.
Predicted Cross Reactivity	Pig, Zebrafish, Bovine, Horse, Sheep, Rabbit, Dog, Chicken, Xenopus
Similarity	Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Chicken (92%), Xenopus (92%)
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA327631 staining HepG2 cells 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) antibody, diluted at 1/600, was used as secondary antibody.



WB (Western Blot)

Western blot analysis of RIOK3 using K562 whole cell lysates

ADDITIONAL INFORMATION

Related Product Information for anti-RIOK3 antibody

Function: Involved in regulation of type I interferon (IFN)-dependent immune response which plays a critical role in the innate immune response against DNA and RNA viruses. May act as an adapter protein essential for the recruitment of TBK1 to IRF3 (PubMed:24807708). Phosphorylates IFIH1 on 'Ser-828' interfering with IFIH1 filament assembly on long dsRNA and resulting in attenuated IFIH1-signaling (PubMed:25865883). Can inhibit CASP10 isoform 7-mediated activation of the NF-kappaB signaling pathway (PubMed:19557502). May play a role in the biogenesis of the 40S ribosomal subunit. Involved in the processing of 21S pre-rRNA to the mature 18S rRNA (PubMed:22418843).

Subunit Structure: Interacts with CASP10 (PubMed:19557502). Interacts with IRF3; RIOK3 probably mediates the interaction of TBK1 with IRF3 (PubMed:24807708). Associated with 40S pre-ribosomal particles.

Post-translational Modifications: Autophosphorylated (in vitro).

Similarity: Belongs to the protein kinase superfamily. RIO-type Ser/Thr kinase family.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22325377
NCBI GeneID	8780
NCBI Accession #	NP_003822.2
NCBI GenBank Nucleotide #	NM_003831.4
UniProt Accession #	O14730; Q8IXN9
Molecular Weight	Observed: 59 kDa Predicted: 60 kDa
NCBI Official Full Name	serine/threonine-protein kinase RIO3 isoform 1
NCBI Official Synonym Full Names	RIO kinase 3
NCBI Official Symbol	RIOK3
NCBI Official Synonym Symbols	SUDD
NCBI Protein Information	serine/threonine-protein kinase RIO3
UniProt Protein Name	Serine/threonine-protein kinase RIO3
UniProt Gene Name	RIOK3
UniProt Synonym Gene Names	SUDD

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://www.aaabiotech.com/polyclonal/riok3-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/327631>