RIOK3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RIOK3, Polyclonal Antibody
Full Product Name	RIOK3 Antibody
Product Gene Name	anti-RIOK3 antibody
Product Synonym Names	Serine/threonine-protein kinase RIO3; RIO kinase 3; sudD homolog; RIOK3; SUDD
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Molecular Weight	58,671 Da
3D Structure	ModBase 3D Structure for O14730
Applications Tested/Suitable for anti-RIOK3 antibody	Western Blot (WB), ELISA (EIA)
Related Product Information for anti-RIOK3 antibody	MBS9233085 is an antibody targeting RIOK3. Also known as RIOK3 Antibody. Reactive in Human, Mouse, Rat. Host: Rabbit.
Product References and Citations for anti-RIOK3 antibody	Anaya P., et al.Gene 211:323-329 (1998).Nusbaum C., et al.Nature 437:551-555 (2005).Dephoure N., et al.Proc. Natl. Acad. Sci. U.S.A. 105:10762-10767 (2008).Burkard T.R., et al.BMC Syst. Biol. 5:17-17 (2011).Greenman C., et al.Nature 446:153-158 (2007).
Other Notes	Small volumes of anti-RIOK3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RIOK3. It may not necessarily be applicable to this product.

NCBI GI #	112180703
NCBI GeneID	8780
NCBI Accession #	AAH28360.1
UniProt Primary Accession #	O14730
UniProt Secondary Accession #	Q8IXN9
UniProt Related Accession #	O14730
NCBI Official Full Name	RIOK3 protein
NCBI Official Synonym Full Names	RIO kinase 3
NCBI Official Symbol	RIOK3
NCBI Official Synonym Symbols	SUDD

UniProt Protein Name	Serine/threonine-protein kinase RIO3
UniProt Synonym Protein Names	RIO kinase 3; sudD homolog
UniProt Gene Name	RIOK3
UniProt Synonym Gene Names	SUDD
NCBI Protein Information	serine/threonine-protein kinase RIO3
NCBI Summary for RIOK3	This gene was first identified by the similarity of its product to the Aspergillus nidulans SUDD protein. This gene is now recognized as a member of the right open reading frame (RIO) kinase gene family. This gene encodes a serine/threonine kinase that localizes to the cytoplasm and plays a role in the processing of the pre-40 S ribosomal subunit. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Jan 2017]
UniProt Comments for RIOK3	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).
Research Articles on RIOK3	**1.** the ectopic expression of RIOK3 or a phosphomimetic MDA5-S828D mutation attenuated MDA5-mediated signaling.
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