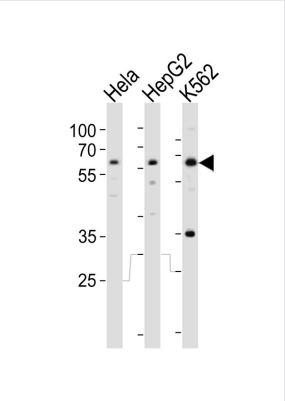
RIOK3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RIOK3, Polyclonal Antibody
Full Product Name	RIOK3 Antibody (Center)
Product Gene Name	anti-RIOK3 antibody
Product Synonym Names	Serine/threonine-protein kinase RIO3; RIO kinase 3; sudD homolog; RIOK3; SUDD
Clonality	Polyclonal
Isotype	Rabbit Ig
Host	Rabbit
Species Reactivity	Human
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Concentration	Vial Concentration: 0.5 (lot specific)
Specificity	This RIOK3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 146-179 amino acids from the Central region of human RIOK3.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.
Antibody/Peptide Pairs	RIOK3 peptide (MBS9229515) is used for blocking the activity of RIOK3 antibody (MBS9203348)
Molecular Weight	59093
OMIM	603579
3D Structure	ModBase 3D Structure for O14730
Crown Antibody	Yes
Antigen Source	HUMAN
Product Categories/Family for anti-RIOK3 antibody	Crown Antibodies; Signal Transduction
Applications Tested/Suitable for anti-RIOK3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-RIOK3 antibody	WB~~1:1000
Related Product Information for anti-RIOK3 antibody	MBS9203348 is an antibody targeting RIOK3. Also known as RIOK3 Antibody (Center). Reactive in Human. 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.



Western Blot (WB) of anti-RIOK3 antibody
Western blot analysis of lysates from Hela, HepG2, K562 cell line (from left to right), using RIOK3 Antibody (Center). MBS9203348 was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20ug per lane.

ADDITIONAL DETAILS

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

NCBI GI #	22325377
NCBI GeneID	8780
NCBI Accession #	NP_003822.2
UniProt Primary Accession #	O14730
UniProt Secondary Accession #	Q8IXN9
UniProt Related Accession #	O14730
GenBank Nucleotide #	NM_003831.3
NCBI Official Full Name	serine/threonine-protein kinase RIO3
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
UniProt Entry Name	RIOK3_HUMAN
NCBI Protein Information	serine/threonine-protein kinase RIO3
NCBI Summary for RIOK3	This gene was identified by the similarity of its product to the Aspergillus nidulans SUDD protein, an extragenic suppressor of the heat-sensitive bimD6 mutation that fails to attach properly to the spindle microtubules at a restrictive temperature. The specific function of this gene has not yet been determined. [provided by RefSeq, Jul 2008]

UniProt Comments for RIOK3	RIOK3: identified by the similarity of its product to the Aspergillus nidulans SUDD protein, an extragenic suppressor of the heat-sensitive bimD6 mutation that fails to attach properly to the spindle microtubules at a restrictive temperature. The specific function of this gene has not yet been determined. [provided by RefSeq, Jul 2008] Protein type: Kinase, protein; Protein kinase, atypical; EC 2.7.11.1; ATYPICAL group; RIO family; RIO3 subfamily Chromosomal Location of Human Ortholog: 18q11.2 Molecular Function: protein serine/threonine kinase activity; protein binding; ATP binding Biological Process: protein amino acid phosphorylation; chromosome segregation
Research Articles on RIOK3	**1.** Functionally, RIOK3 acts as a SUFU-dependent positive regulator of Hedgehog signaling.
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