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# RIOK3 Blocking Peptide (Center)

**Synthetic peptide**
**Catalog # BP20884a**

## Specification

### RIOK3 Blocking Peptide (Center) - Product Information

Primary Accession O14730

### RIOK3 Blocking Peptide (Center) - Additional Information

**Gene ID** 8780

**Other Names**
Serine/threonine-protein kinase RIO3, RIO kinase 3, sudD homolog, RIOK3, SUDD

**Target/Specificity**
The synthetic peptide sequence is selected from aa 146-159 of HUMAN RIOK3

**Format**
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

### RIOK3 Blocking Peptide (Center) - Protein Information

**Name** RIOK3

**Synonyms** SUDD

**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:<a href="http://www.uniprot.org/citations/24807708" target="_blank">24807708</a>). Phosphorylates IFIH1 on 'Ser-828' interfering with IFIH1 filament assembly on long dsRNA and resulting in attenuated IFIH1-signaling (PubMed:<a href="http://www.uniprot.org/citations/25865883" target="_blank">25865883</a>). Can inhibit CASP10 isoform 7-mediated activation of the NF-kappaB signaling pathway (PubMed:<a href="http://www.uniprot.org/citations/19557502" target="_blank">19557502</a>). 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:<a href="http://www.uniprot.org/citations/22418843" target="_blank">22418843</a>).

**Cellular Location**
Cytoplasm.

**Tissue Location**
Widely expressed..

## RIOK3 Blocking Peptide (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

## RIOK3 Blocking Peptide (Center) - Images

## RIOK3 Blocking Peptide (Center) - References

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).