

RIOK1 Antibody (C-term) Blocking peptide
Synthetic peptide
Catalog # BP7200b**Specification**

RIOK1 Antibody (C-term) Blocking peptide - Product InformationPrimary Accession [Q9BRS2](#)**RIOK1 Antibody (C-term) Blocking peptide - Additional Information**

Gene ID 83732

Other Names

Serine/threonine-protein kinase RIO1, RIO kinase 1, RIOK1

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP7200b](/product/products/AP7200b) was selected from the C-terminal region of human RIOK1. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

RIOK1 Antibody (C-term) Blocking peptide - Protein InformationName RIOK1 ([HGNC:18656](#))

Synonyms RIO1

Function

Involved in the final steps of cytoplasmic maturation of the 40S ribosomal subunit. Involved in processing of 18S-E pre-rRNA to the mature 18S rRNA. Required for the recycling of NOB1 and PNO1 from the late 40S precursor (PubMed:[22072790](http://www.uniprot.org/citations/22072790)). The association with the very late 40S subunit intermediate may involve a translation-like checkpoint point cycle preceding the binding to the 60S ribosomal subunit (By similarity). Despite the protein kinase domain is proposed to act predominantly as an ATPase (By similarity). The catalytic activity regulates its dynamic association with the 40S subunit (By similarity). In addition to its role in ribosomal biogenesis acts as an adapter protein by recruiting NCL/nucleolin to the PRMT5 complex for its symmetrical methylation (PubMed:[21081503](http://www.uniprot.org/citations/21081503)).

Cellular Location

Cytoplasm, cytosol.

RIOK1 Antibody (C-term) Blocking peptide - Protocols

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

- [Blocking Peptides](#)

RIOK1 Antibody (C-term) Blocking peptide - Images**RIOK1 Antibody (C-term) Blocking peptide - Background**

RIOK2 belongs to the protein kinase superfamily; RIO-type Ser/Thr kinase family. Serine/threonine protein kinases, such as RIOK2, phosphorylate the OH group of serine or threonine (which have similar sidechains). Activity of these protein kinases can be regulated by specific events (e.g. DNA damage), as well as numerous chemical signals, including cAMP/cGMP, Diacylglycerol, and Ca²⁺/calmodulin.

RIOK1 Antibody (C-term) Blocking peptide - References

Line, A., et al., Cancer Immunol. Immunother. 51(10):574-582 (2002).