10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# RIOK2 Antibody (Center)
**Purified Rabbit Polyclonal Antibody (Pab)**
**Catalog # AP7009c**

## Specification

### RIOK2 Antibody (Center) - Product Information

| | |
|---|---|
| Application | **WB,E** |
| Primary Accession | Q9BVS4 |
| Reactivity | **Human** |
| Host | **Rabbit** |
| Clonality | **Polyclonal** |
| Isotype | **Rabbit IgG** |
| Calculated MW | **63283** |
| Antigen Region | **270-299** |

### RIOK2 Antibody (Center) - Additional Information

**Gene ID** 55781

**Other Names**
Serine/threonine-protein kinase RIO2, RIO kinase 2, RIOK2

**Target/Specificity**
This RIOK2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 270-299 amino acids from the Central region of human RIOK2.

**Dilution**
WB~~1:1000

**Format**
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

**Storage**
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**
RIOK2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

### RIOK2 Antibody (Center) - Protein Information

**Name** RIOK2 (HGNC:18999)

**Function** Serine/threonine-protein kinase involved in the final steps of cytoplasmic maturation of the 40S ribosomal subunit. Involved in export of the 40S pre-ribosome particles (pre-40S) from the nucleus to the cytoplasm. Its kinase activity is required for the release of NOB1, PNO1 and LTV1

from the late pre-40S and the processing of 18S-E pre- rRNA to the mature 18S rRNA (PubMed:19564402). Regulates the timing of the metaphase-anaphase transition during mitotic progression, and its phosphorylation, most likely by PLK1, regulates this function (PubMed:21880710).

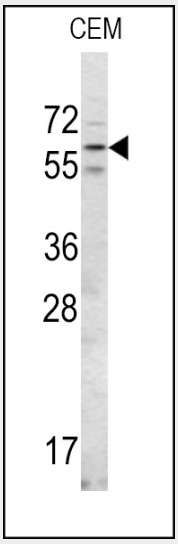
**Cellular Location**
Cytoplasm. Note=Exported out of the nucleus via its NES in a XPO1-dependent manner.

## RIOK2 Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## RIOK2 Antibody (Center) - Images




Western blot analysis of RIOK2 Center (Cat. #AP7009c) in CEM cell line lysates (35ug/lane). RIOK2 (arrow) was detected using the purified Pab.

## RIOK2 Antibody (Center) - 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.

## RIOK2 Antibody (Center) - References

Ota, T., et al., Nat. Genet. 36(1):40-45 (2004).