

For Research Use Only

# RIOK3 Polyclonal antibody

Catalog Number: 13593-1-AP

Featured Product

4 Publications



## Basic Information

**Catalog Number:**

13593-1-AP

**Size:**

600 µg/ml

**Source:**

Rabbit

**Isotype:**

IgG

**Immunogen Catalog Number:**

AG4497

**GenBank Accession Number:**

BC039729

**GeneID (NCBI):**

8780

**UNIPROT ID:**

O14730

**Full Name:**

RIO kinase 3 (yeast)

**Calculated MW:**

516 aa, 60 kDa

**Observed MW:**

60 kDa

**Purification Method:**

Antigen affinity purification

**Recommended Dilutions:**

WB 1:1000-1:5000

IP 0.5-4.0 µg for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF/ICC 1:10-1:100

## Applications

**Tested Applications:**

WB, IHC, IF/ICC, IP, ELISA

**Cited Applications:**

WB

**Species Specificity:**

human, mouse, rat

**Cited Species:**

human, mouse

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HEK-293T cells, mouse testis tissue, MCF-7 cells, rat testis tissue, HeLa cells, Jurkat cells

**IP:** mouse testis tissue,

**IHC:** human breast cancer tissue,

**IF/ICC:** MCF-7 cells,

## Background Information

RIOK3 (Serine/threonine-protein kinase RIO3) is initially characterized as a homolog of *Aspergillus nidulans* sudD and showed down-regulation at the invasive front of malignant melanomas. On Western blots, human RIOK3 migrated as a 60-kD protein. Northern blot analysis indicated that the approximately 4-kb RIOK3 mRNA is expressed widely in human tissues, with additional smaller transcripts present in testis.

## Notable Publications

Author	Pubmed ID	Journal	Application
Min Yu	34572430	Biomedicines	WB
Yong Shen	34161773	Cell Rep	WB
Lingbo Zhang	21196494	Genes Dev	WB

## Storage

**Storage:**

Store at -20°C. Stable for one year after shipment.

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

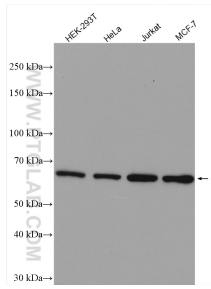
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

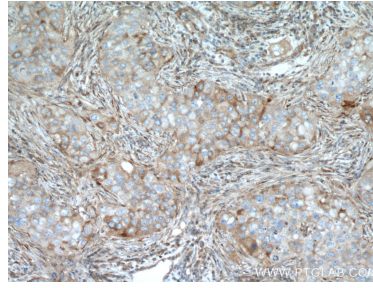
W: [ptgen.com](http://ptgen.com)

**This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.**

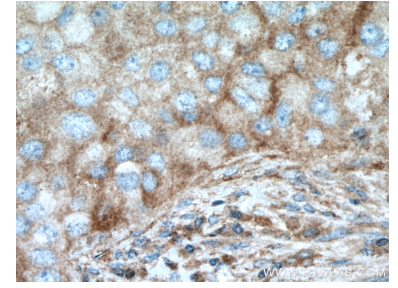
## Selected Validation Data



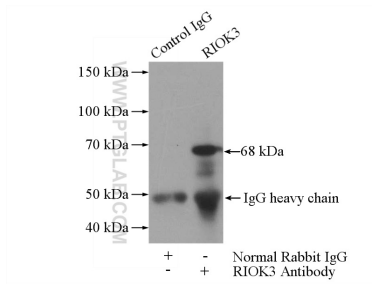
Various lysates were subjected to SDS PAGE followed by western blot with 13593-1-AP (ROK3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



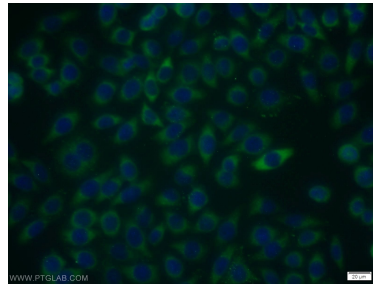
Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13593-1-AP (ROK3 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 13593-1-AP (ROK3 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



IP result of anti-ROK3 (IP:13593-1-AP, 4ug; Detection:13593-1-AP 1:600) with mouse testis tissue lysate 4000ug.



Immunofluorescent analysis of MCF-7 cells using 13593-1-AP (ROK3 antibody) at dilution of 1:25 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).