

For Research Use Only

Phospho-RPS6KA1 (Ser380) Recombinant antibody

Catalog Number: 80108-1-RR

Featured Product



Basic Information

Catalog Number:

80108-1-RR

Size:

500 ug/ml

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC014966

GeneID (NCBI):

6195

UNIPROT ID:

Q15418

Full Name:

ribosomal protein S6 kinase, 90kDa, polypeptide 1

Calculated MW:

735 aa, 83 kDa

Observed MW:

83-90 kDa

Purification Method:

Protein A purification

CloneNo.:

7F23

Recommended Dilutions:

WB 1:1000-1:5000

IHC 1:1000-1:4000

IF/ICC 1:250-1:1000

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), ELISA

Species Specificity:

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: PDGF treated NIH/3T3 cells, HeLa cells, Jurkat cells, Calyculin A treated HeLa cells, Calyculin A treated Jurkat cells

IHC: human malignant melanoma tissue, Jurkat cells

IF/ICC: HeLa cells,

Background Information

The 90 kDa ribosomal S6 kinases (RSK1-4) are a family of widely expressed serine/threonine kinases and play an important role in the MAPK signaling cascade and act downstream of ERK1/2 signaling. It can mediate mitogenic and stress-induced activation of the transcription factors CREB1, ETV1/ER81 and NR4A1/NUR77. RSK1 (RPS6KA1) is also designated as p90RSK associated with cellular proliferation, survival and differentiation. It has been reported that the phosphorylation of RPS6KA1 at Ser380 is involved in autophosphorylation by activation of the C-terminal kinase domain. (PMID: 16458888, 30813401, 17259979, 10679322)

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:

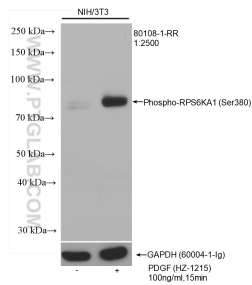
T: 4006900926

E: Proteintech-CN@ptglab.com

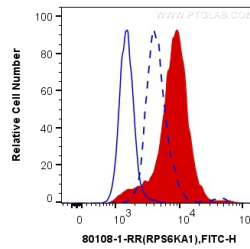
W: ptgcn.com

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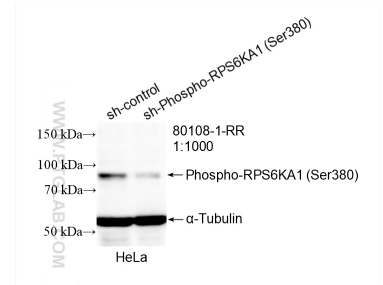
Selected Validation Data



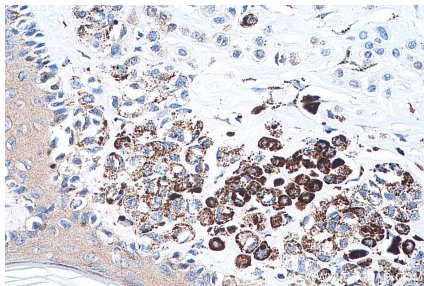
Non-treated NIH/3T3 and PDGF (HZ-1215) treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 80108-1-RR (Phospho-RPS6KA1 (Ser380) antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with GAPDH antibody as loading control.



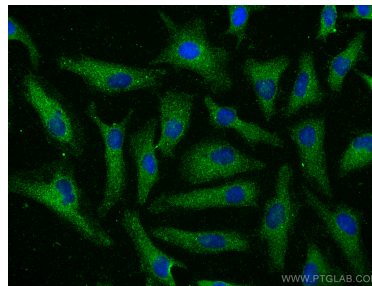
1×10^6 Jurkat cells untreated (dashed line) or treated with TPA treated (red) were intracellularly stained with 0.4 ug Anti-Human Phospho-RPS6KA1 (Ser380) (80108-1-RR, Clone: 7F23) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody (blue). Cells were fixed and permeabilized with True-Nuclear Transcription Factor Buffer Set.



WB result of Phospho-RPS6KA1 (Ser380) antibody (80108-1-RR; 1:1000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Phospho-RPS6KA1 (Ser380) transfected HeLa cells.



Immunohistochemical analysis of paraffin-embedded human malignant melanoma tissue slide using 80108-1-RR (Phospho-RPS6KA1 (Ser380) antibody) at dilution of 1:2000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (-20°C Ethanol) fixed HeLa cells using Phospho-RPS6KA1 (Ser380) antibody (80108-1-RR, Clone: 7F23) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).