

For Research Use Only

Phospho-RPS6KA1 (Ser380) Recombinant antibody



Catalog Number: 80108-1-RR

Basic Information

Catalog Number: 80108-1-RR	GenBank Accession Number: BC014966	Purification Method: Protein A purification
Size: 100ul , Concentration: 500 µg/ml by Nanodrop;	GeneID (NCBI): 6195	CloneNo.: 7F23
Source: Rabbit	Full Name: ribosomal protein S6 kinase, 90kDa, polypeptide 1	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:1000-1:4000
Isotype: IgG	Calculated MW: 735 aa, 83 kDa	
	Observed MW: 83-90 kDa	

Applications

Tested Applications:

FC, IHC, WB, 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,

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

***** 20ul sizes contain 0.1% BSA**

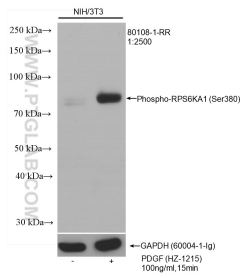
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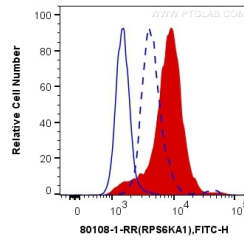
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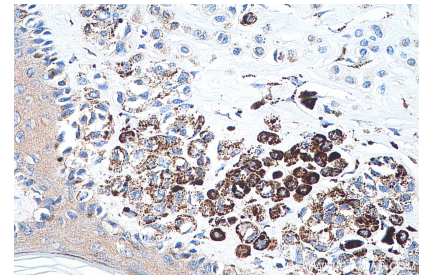
Selected Validation Data



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.



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).