For Research Use Only

Phospho-RASGRF1 (Ser927) Recombinant antibody

Catalog Number:82309-1-RR 1 Publications

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Basic Information

Catalog Number:
82309-1-RR

Size:
100ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

GenBank Accession Number:
BC040275

GeneID (NCBI):
5923

UNIPROT ID:
Q13972

Full Name:
Ras protein-specific guanine nucleotide-releasing factor 1

Calculated MW:
134 kDa

Observed MW:
145 kDa

Purification Method:
Protein A purification

CloneNo.:
5K3

Recommended Dilutions:
WB 1:1000-1:5000

Applications

Tested Applications:
WB, ELISA

Cited Applications:
WB

Species Specificity:
human

Cited Species:
human

Positive Controls:

WB : Forskolin treated HeLa cells,

Background Information

The RASGRF1 exchange factor, which is also known as CDC25 in Saccharomyces cerevisiae, promotes the exchange of Ras-bound GDP by GTP, is known to play central roles in pathways of cellular growth and differentiation. The serine residue at position 916 in mouse Ras-GRF1 is a PKA phosphorylation site, and the corresponding human residue is serine 927. It's reported that phosphorylation of serine 916 is necessary but not sufficient for maximal activation of mouse RASGRF1. The calculated MW of non-phosphorylated RASGRF1 is 145 kDa. 82309-1-RR can detect a band around 145 kDa, and can detect the increasing phosphorylation level after Forskolin treated. (PMID:15853814, 10601308)

Notable Publications

Author	Pubmed ID	Journal	Application
Enjie Xu	40083708	Int J Biol Sci	WB

Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
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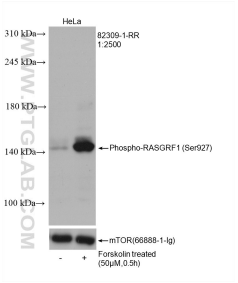
Selected Validation Data



Non-treated and Forskolin treated HeLa cells were subjected to SDS PAGE followed by western blot with 82309-1-RR (Phospho-RASGRF1 (Ser927) antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with mTOR (66888-1-Ig) as loading control.