

For Research Use Only

Phospho-SHP2 (Tyr580) Recombinant antibody

Catalog Number: 81219-2-RR



Basic Information

Catalog Number:

81219-2-RR

Size:

100ul, Concentration: 1000 µg/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

BC008692

GeneID (NCBI):

5781

UNIPROT ID:

Q06124

Full Name:

protein tyrosine phosphatase, non-receptor type 11

Calculated MW:

597 aa, 68 kDa

Observed MW:

72 kDa

Purification Method:

Protein A purification

CloneNo.:

242434E2

Recommended Dilutions:

WB 1:1000-1:4000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human, mouse, rat

Positive Controls:

WB : PDGF treated NIH/3T3 cells, PDGF treated C6 cells

Background Information

Shp2, encoded by the PTPN11 gene, is a protein tyrosine phosphatase that acts as a positive regulator of Ras-Erk pathway. Shp2 contains two tandem Src homology 2 (SH2) domains, a protein tyrosine phosphatase domain and tyrosine phosphorylation sites. It has been suggested that the phosphorylated Tyr542 and Tyr580 recruit Grb2/Sos complex to activate Ras-Erk signaling. Recently, it was reported that ZAP70, a non-receptor tyrosine kinase, enhances phosphorylation of Shp2 at Tyr580 and activates Erk. (PMID: 23318428)

Storage

Storage:

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

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

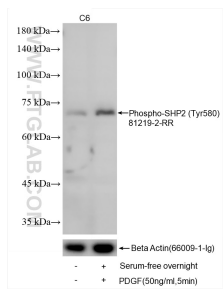
For technical support and original validation data for this product please contact:

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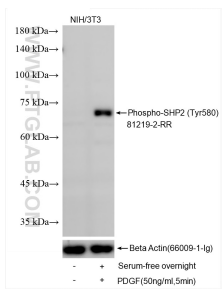
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W: ptglab.com

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Selected Validation Data



Non-treated C6 cells and PDGF treated C6 cells were subjected to SDS PAGE followed by western blot with 81219-2-RR (Phospho-SHP2 (Tyr580) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control.



Non-treated NIH/3T3 cells and PDGF treated NIH/3T3 cells were subjected to SDS PAGE followed by western blot with 81219-2-RR (Phospho-SHP2 (Tyr580) antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours. The membrane was stripped and re-blotted with Beta Actin (66009-1-Ig) antibody as a loading control.