For Research Use Only

Phospho-SHP2 (Tyr580) Recombinant antibody, PBS Only

Catalog Number:81219-2-PBS

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Uni-rAb
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Basic Information

Catalog Number:
81219-2-PBS

Size:
100ug , Concentration: 1 mg/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

Applications

Tested Applications:
WB, Indirect ELISA

Species Specificity:
human, mouse, rat

Background Information

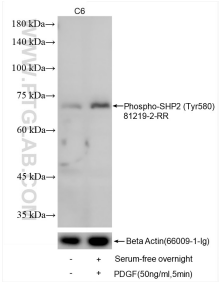
Shp2, encoded by the PTPN11 gene, is a protein tyrosine phosphatase that acts as a positive regulator of Ras-Erk pathway. Shp2 contains two tandem Src homology 2 (SH2) domains, a protein tyrosine phosphatase domain and tyrosine phosphorylation sites. It has been suggested that the phosphorylated Tyr542 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

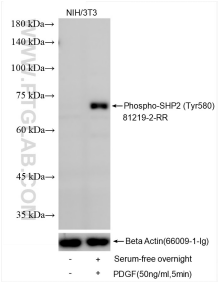
Storage:
Store at -80°C.
Storage Buffer:
PBS only

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)
E: proteintech@ptglab.com
W: ptglab.com

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. This data was developed using the same antibody clone with 81219-2-PBS in a different storage buffer formulation.



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. This data was developed using the same antibody clone with 81219-2-PBS in a different storage buffer formulation.