

SHP2(Phospho-Y542) Rabbit mAb

Catalog No: #13393



Package Size: #13393-1 50ul #13393-2 100ul

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Description

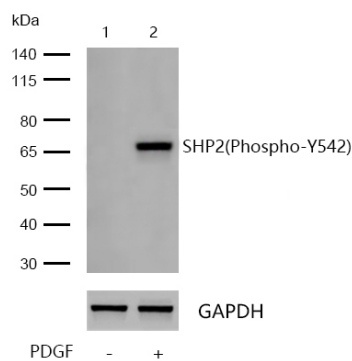
Product Name	SHP2(Phospho-Y542) Rabbit mAb
Host Species	Rabbit
Clonality	Monoclonal
Clone No.	SN61-01
Purification	ProA affinity purified
Applications	WB;ICC/IF
Species Reactivity	Human;Mouse
Immunogen Description	Synthetic phospho-peptide corresponding to residues surrounding Tyr542 of human SHP2.
Conjugates	Unconjugated
Other Names	BTP3 antibody CFC antibody JMML antibody METCDS antibody MGC14433 antibody NS1 antibody OTTHUMP00000166107 antibody OTTHUMP00000166108 antibody Protein tyrosine phosphatase 2 antibody Protein tyrosine phosphatase 2C antibody Protein tyrosine phosphatase non receptor type 11 antibody Protein-tyrosine phosphatase 1D antibody Protein-tyrosine phosphatase 2C antibody PTN11_HUMAN antibody PTP-1D antibody PTP-2C antibody PTP1D antibody PTP2C antibody PTPN11 antibody SAP2 antibody SH-PTP2 antibody SH-PTP3 antibody SH2 domain containing protein tyrosine phosphatase 2 antibody SHP 2 antibody SHP-2 antibody Shp2 antibody SHPTP2 antibody SHPTP3 antibody Syp antibody Tyrosine-protein phosphatase non-receptor type 11 antibody
Accession No.	Swiss-Prot#:Q06124
Calculated MW	68 kDa
SDS-PAGE MW	68 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

WB: 1:500-1:2000

ICC/IF: 1:50-1:200

Images



All lanes: SHP2(Phospho-Y542) Rabbit mAb at 1/1k dilution

Lane 1 : NIH/3T3 whole cell lysates

Lane 2 : NIH/3T3 treated with 40ng/mL PDGF for 40 minutes whole cell lysates

Lysates/proteins at 20 µg per lane.

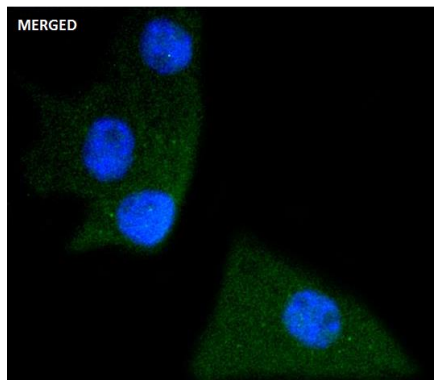
Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) at 1/20000 dilution

Predicted band size: 68 kDa

Observed band size: 68 kDa

Exposure time: 15 seconds



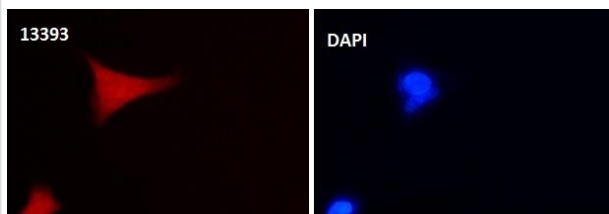
Immunocytochemistry/ Immunofluorescence SHP2

(Phospho-Y542) antibody (13393)

ICC/IF staining of SHP2(Phospho-Y542) in B6F1 cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 13393 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 488 goat anti rabbit;used at a dilution of 1/500.

Nuclei were counterstained with DAPI.



Immunocytochemistry/ Immunofluorescence SHP2

(Phospho-Y542) antibody (13393)

ICC/IF staining of SHP2(Phospho-Y542) in 293 cells. Cells were fixed with 4% Paraformaldehyde permeabilized with 0.1% Triton X-100.

Samples were incubated with 13393 at a working dilution of 1/100. The secondary antibody was Alexa FluorB 647 goat anti rabbit;used at a dilution of 1/500.

Nuclei were counterstained with DAPI.

Background

The steady state of protein tyrosyl phosphorylation in cells is regulated by the opposing action of tyrosine kinases and protein tyrosine phosphatases (PTPs). Several groups have independently identified a non-transmembrane PTP, designated SH-PTP1 (also known as PTP1C, HCP and SHP), which is primarily expressed in hematopoietic cells and characterized by the presence of two SH2 domains N-terminal to the PTP domain. SH2 domains generally mediate the association of regulatory molecules with specific phosphotyrosine-containing sites on autophosphorylated receptors, thereby controlling the initial interaction of receptors with these substrates. A second and much more widely expressed PTP with SH2 domains, SH-PTP2 (also designated PTP1D and Syp), has been identified. Strong sequence similarity between SH-PTP2 and the Drosophila gene corkscrew (CSW) and their similar patterns of expression suggest that SH-PTP2 is the human corkscrew homolog.

References

1. Tsang YH et al. Novel Functions of the Phosphatase SHP2 in the DNA Replication and Damage Checkpoints. PLoS One 7:e49943 (2012).
2. Baner-Berceli AK et al. Angiotensin II and endothelin-1 augment the vascular complications of diabetes via JAK2 activation. Am J Physiol Heart Circ Physiol 293:H1291-9 (2007).

Published Papers

Shina Lu;Xiaojue Peng;Gang Lin;Kang Xu;Shanghong Wang;Weihua Qiu;Hailing Du;Kaile Chang;Yangfeng Lv;Yapeng Liu;Hang Deng;Chengyu Hu;Xiaowen Xu et al., Grass carp (*Ctenopharyngodon idellus*) SHP2 suppresses IFN I expression via decreasing the phosphorylation of GSK3 beta in a non-contact manner, , (2021)

[PMID:34265416](#)

Note: This product is for in vitro research use only and is not intended for use in humans or animals.