

## ARG63447 anti-SHP2 antibody

Package: 100 µg  
Store at: -20°C

### Summary

|                     |   |
|---------------------|---|
| Product Description | Goat Polyclonal antibody recognizes SHP2  |
| Tested Reactivity   | Hu  |
| Predict Reactivity  | Ms, Rat, Cow, Pig   |
| Tested Application  | FACS, ICC/IF, IHC-P, WB   |
| Host                | Goat  |
| Clonality           | Polyclonal  |
| Isotype             | IgG   |
| Target Name         | SHP2  |
| Species             | Human   |
| Immunogen           | C-YENVGLMQQKSF  |
| Conjugation         | Un-conjugated   |
| Alternate Names     | BPTP3; SHP-2; Protein-tyrosine phosphatase 2C; METCDS; PTP2C; Tyrosine-protein phosphatase non-receptor type 11; PTP-1D; CFC; PTP-2C; JMML; Shp2; Protein-tyrosine phosphatase 1D; NS1; EC 3.1.3.48; SH-PTP2; SH-PTP3; SHP2 |

### Application Instructions

| Application table | Application  | Dilution          |
|-------------------|--|-------------------|
|                   | FACS   | 10 µg/ml          |
|                   | ICC/IF   | 10 µg/ml          |
|                   | IHC-P  | Assay - dependent |
|                   | WB   | 1 - 3 µg/ml       |
| Application Note  | WB: Recommend incubate at RT for 1h.<br>IHC-P: Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0).<br>* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist. |                   |

### Properties

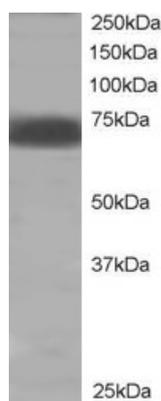
|              |  |
|--------------|--|
| Form         | Liquid   |
| Purification | Purified from goat serum by antigen affinity chromatography. |
| Buffer       | Tris saline (pH 7.3), 0.02% Sodium azide and 0.5% BSA.       |
| Preservative | 0.02% Sodium azide   |
| Stabilizer   | 0.5% BSA   |

|                     |  |
|---------------------|--|
| Concentration       | 0.5 mg/ml  |
| Storage instruction | For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C or below. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use. |
| Note                | For laboratory research only, not for drug, diagnostic or other use.   |

## Bioinformation

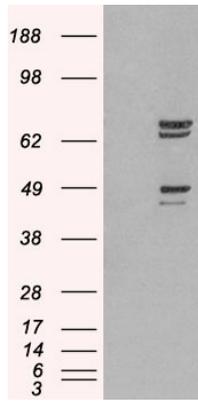
|                |  |
|----------------|--|
| Database links | <a href="#">GeneID: 5781 Human</a><br><a href="#">Swiss-port # Q06124 Human</a>  |
| Background     | <p>The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. This PTP contains two tandem Src homology-2 domains, which function as phospho-tyrosine binding domains and mediate the interaction of this PTP with its substrates. This PTP is widely expressed in most tissues and plays a regulatory role in various cell signaling events that are important for a diversity of cell functions, such as mitogenic activation, metabolic control, transcription regulation, and cell migration. Mutations in this gene are a cause of Noonan syndrome as well as acute myeloid leukemia. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, May 2012]</p> |
| Research Area  | Neuroscience antibody; Signaling Transduction antibody   |
| Calculated Mw  | 68 kDa   |
| PTM            | Phosphorylated on Tyr-546 and Tyr-584 upon receptor protein tyrosine kinase activation; which creates a binding site for GRB2 and other SH2-containing proteins. Phosphorylated upon activation of the receptor-type kinase FLT3. Phosphorylated upon activation of the receptor-type kinase PDGFRA (By similarity). Phosphorylated by activated PDGFRB.   |

## Images



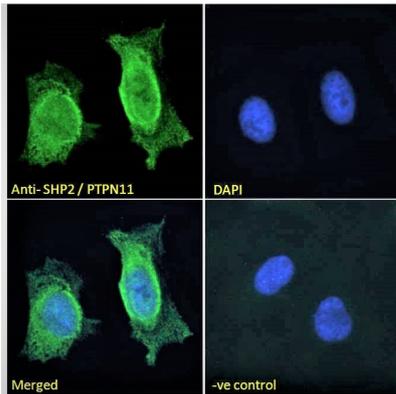
ARG63447 anti-SHP2 antibody WB image

Western blot: Human muscle lysate (RIPA buffer, 35 µg total protein per lane) stained with ARG63447 anti-SHP2 antibody at 2 µg/ml dilution.



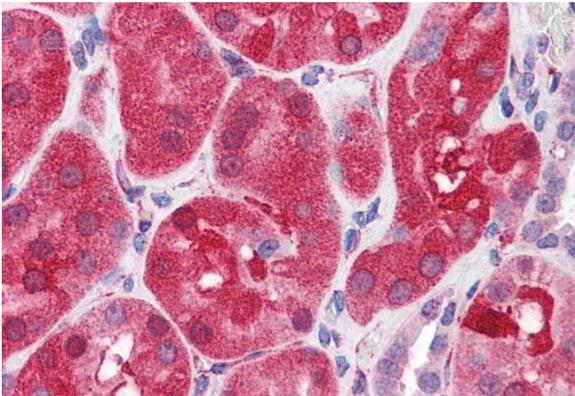
#### ARG63447 anti-SHP2 antibody WB image

Western blot: 1). Mock transfected; 2) PTPN11 (RC220029) expressing plasmid transfected HEK293 cell lysate stained with ARG63447 anti-SHP2 antibody.



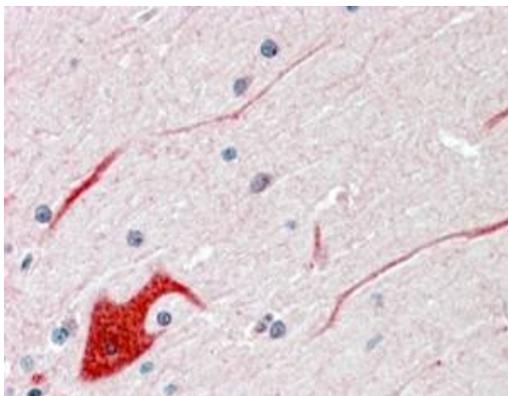
#### ARG63447 anti-SHP2 antibody ICC/IF image

Immunofluorescence: Paraformaldehyde fixed HeLa cells permeabilized with 0.15% Triton. Cells were stained with ARG63447 anti-SHP2 antibody (green) at 10 µg/ml dilution for 1 hour. DAPI (blue) for nuclear staining. Negative control: Unimmunized goat IgG (green) at 10 µg/ml dilution.



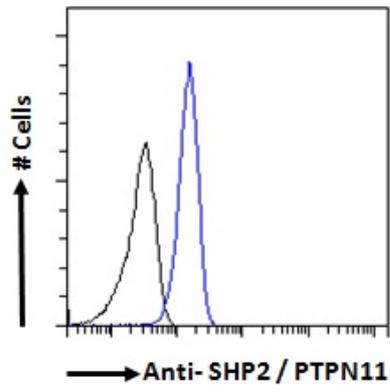
#### ARG63447 anti-SHP2 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Human kidney tissue. Antigen Retrieval: Steam tissue section in Citrate buffer (pH 6.0). The tissue section was stained with ARG63447 anti-SHP2 antibody at 3.75 µg/ml dilution followed by AP-staining.



#### ARG63447 anti-SHP2 antibody IHC-P image

Immunohistochemistry: Paraffin embedded Human Cerebellum (Steamed antigen retrieval with citrate buffer pH 6) stained with ARG63447 anti-SHP2 antibody at 3.8 µg/ml dilution followed by AP-staining.



#### ARG63447 anti-SHP2 antibody FACS image

Flow Cytometry: Paraformaldehyde-fixed A431 cells permeabilized with 0.5% Triton. Cells were stained with ARG63447 anti-SHP2 antibody (blue line) at 10  $\mu\text{g/ml}$  dilution for 1 hour, followed by incubation with Alexa FluorR 488 labelled secondary antibody. IgG control: Unimmunized goat IgG (black line).