

For Research Use Only

# PTPN11/SHP2 Monoclonal antibody

Catalog Number: 66795-1-Ig



## Basic Information

<b>Catalog Number:</b> 66795-1-Ig	<b>GenBank Accession Number:</b> BC008692	<b>Purification Method:</b> Protein G purification
<b>Size:</b> 150ul, Concentration: 1300 µg/ml by Nanodrop and 800 µg/ml by Bradford method using BSA as the standard;	<b>GeneID (NCBI):</b> 5781	<b>CloneNo.:</b> 3F8A8
<b>Source:</b> Mouse	<b>Full Name:</b> protein tyrosine phosphatase, non-receptor type 11	<b>Recommended Dilutions:</b> WB 1:1000-1:4000 IHC 1:50-1:500 IF 1:50-1:500
<b>Isotype:</b> IgG1	<b>Calculated MW:</b> 597 aa, 68 kDa	
<b>Immunogen Catalog Number:</b> AG13649	<b>Observed MW:</b> 68 kDa	

## Applications

**Tested Applications:**  
FC, IF, IHC, WB, ELISA

**Species Specificity:**  
Human, Mouse, Rat

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

**Positive Controls:**

**WB:** HeLa cells, HEK-293 cells, MCF-7 cells, Jurkat cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells

**IHC:** mouse testis tissue,

**IF:** MCF-7 cells,

## Background Information

PTPN11 (protein tyrosine phosphatase, non-receptor type 11) is also named as PTP-1D, PTP2, PTP2C, PTP3, SHP2, CFC, CFC, BPTP3, SH-PTP2, SH-PTP3, MGC14433 and belongs to the protein-tyrosine phosphatase family and non-receptor class 2 subfamily. It modulates and regulates signaling through numerous pathways, many of which are active in the developing endocardial cushions and implicated the ERK pathway as a central mechanism (PMID: 19017799). Its signaling may play equally important roles in retinal survival in both physiological and pathological conditions (PMID: 21576358). Defects in PTPN11 are the cause of LEOPARD syndrome type 1 (LEOPARD1), Noonan syndrome type 1 (NS1), juvenile myelomonocytic leukemia (JMML) and metachondromatosis (MC). It has 3 isoforms produced by alternative splicing.

## Storage

**Storage:**

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

**Storage Buffer:**

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

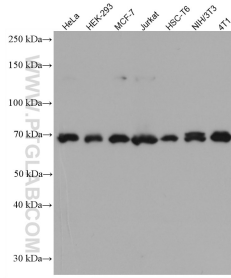
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

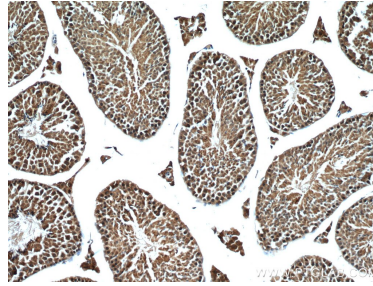
E: proteintech@ptglab.com  
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

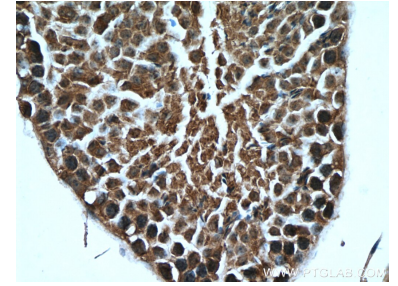
## Selected Validation Data



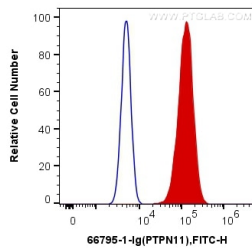
Various lysates were subjected to SDS PAGE followed by western blot with 66795-1-Ig (PTPN11 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



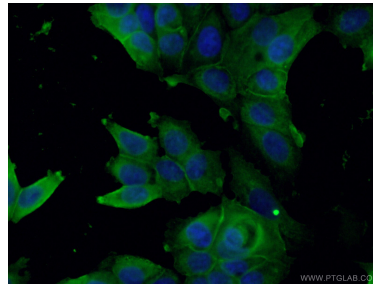
Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 66795-1-Ig (PTPN11 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded mouse testis tissue slide using 66795-1-Ig (PTPN11 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10<sup>6</sup> MCF-7 cells were intracellularly stained with 0.4 ug Anti-Human PTPN11 (66795-1-Ig, Clone:3F8A8) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).



Immunofluorescent analysis of (-20°C Ethanol) fixed MCF-7 cells using 66795-1-Ig (PTPN11 antibody) at dilution of 1:100 and Alexa Fluor 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).