

## PTPN2 Polyclonal Antibody

**catalog number: E-AB-93348**

**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

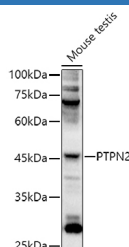
### Description

<b>Reactivity</b>	Human
<b>Immunogen</b>	Recombinant fusion protein of human PTPN2
<b>Host</b>	Rabbit
<b>Isotype</b>	IgG
<b>Purification</b>	Affinity purification
<b>Buffer</b>	Phosphate buffered solution, pH 7.4, containing 0.05% stabilizer and 50% glycerol.

### Applications

<b>WB</b>	1:500-1:2000
<b>IF</b>	1:50-1:200

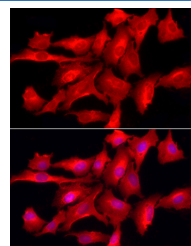
### Data



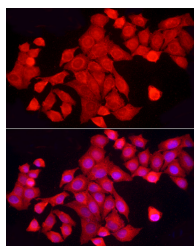
Western blot analysis of extracts of Mouse testis using PTPN2 Polyclonal Antibody at 1:1000 dilution.

**Observed-MV: Refer to figures**

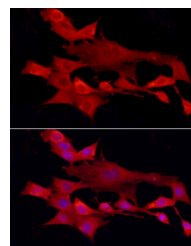
**Calculated-MV: 40 kDa/45 kDa/48 kDa**



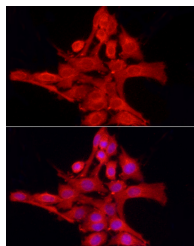
Immunofluorescence analysis of A-549 cells using [KO Validated] PTPN2 Polyclonal Antibody at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of HeLa cells using [KO Validated] PTPN2 Polyclonal Antibody at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of NIH/3T3 cells using [KO Validated] PTPN2 Polyclonal Antibody at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using [KO Validated] PTPN2 Polyclonal Antibody at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.

### For Research Use Only

## Preparation & Storage

**Storage**

Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.

**Shipping**

The product is shipped with ice pack, upon receipt, store it immediately at the temperature recommended.

## Background

The protein encoded by this gene is a member of the protein tyrosine phosphatase (PTP) family. Members of the PTP family share a highly conserved catalytic motif, which is essential for the catalytic activity. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth, differentiation, mitotic cycle, and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP, which suggested the roles in growth factor mediated cell signaling. Multiple alternatively spliced transcript variants encoding different isoforms have been found. Two highly related but distinctly processed pseudogenes that localize to chromosomes 1 and 13, respectively, have been reported.

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