

For Research Use Only

# PTPRF Polyclonal antibody

Catalog Number: 33529-1-AP



## Basic Information

<b>Catalog Number:</b> 33529-1-AP	<b>GenBank Accession Number:</b> NM_002840.4	<b>Purification Method:</b> Antigen affinity Purification
<b>Source:</b> Rabbit	<b>GeneID (NCBI):</b> 5792	<b>Recommended Dilutions:</b> WB: 1:1000-1:8000
<b>Isotype:</b> IgG	<b>UNIPROT ID:</b> P10586-1	IHC: 1:500-1:2000 IF/ICC: 1:200-1:800
<b>Immunogen Catalog Number:</b> EG6919	<b>Full Name:</b> protein tyrosine phosphatase, receptor type, F	
	<b>Calculated MW:</b> 213 kDa	
	<b>Observed MW:</b> 140 kDa, 200-220 kDa	

## Applications

**Tested Applications:**  
WB, IHC, IF/ICC, ELISA

**Species Specificity:**  
human

**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 :** DU 145 cells, HCT 116 cells, HeLa cells, MKN-45 cells

**IHC :** human colon tissue,

**IF/ICC :** RT-4 cells,

## Background Information

PTPRF (Protein Tyrosine Phosphatase Receptor Type F) is a receptor protein tyrosine phosphatase, also known as LAR. PTPRF is a transmembrane protein with extracellular domain, transmembrane domain and two intracellular catalytic domains in series. It is located in the cell membrane and participates in the interaction between cells or cell matrix. It is widely expressed in many tissues, including fat, skin, heart, lung, liver, kidney, pancreas, small intestine, colon, brain, skeletal muscle, spleen, peripheral white blood cells and so on. The protein plays an important role in regulating a variety of cell processes, including cell growth, differentiation, mitotic cycle and carcinogenic transformation. In the insulin-responsive tissues of obese and insulin-resistant individuals, the expression level of PTPRF is increased, which may contribute to the pathogenesis of insulin resistance. PTPRF showed expression changes in many cancers, such as breast cancer, thyroid cancer, non-small cell lung cancer and so on. In gastric adenocarcinoma, PTPRF, as a new tumor suppressor, plays a role by inactivating ERK1/2 signaling pathway (PMID: 32973331). The total length of the protein is 175-200kd, and after cutting, it forms 125-150 and 80-85kd, 70 and 72kd fragments (PMID: 1547787, PMID: 17259169).

## Storage

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

**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

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

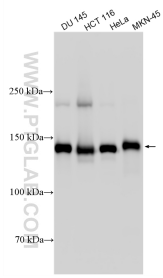
T: 4006900926

E: Proteintech-CN@ptglab.com

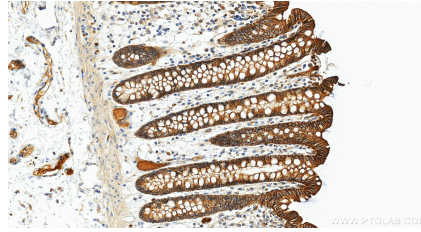
W: ptgcn.com

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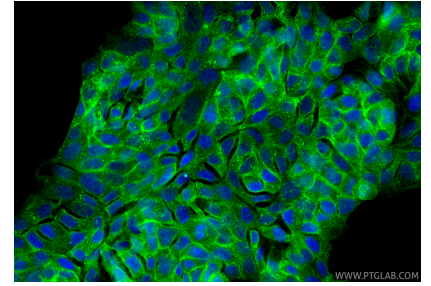
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 33529-1-AP (PTPRF antibody) at dilution of 1:4000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 33529-1-AP (PTPRF antibody) at dilution of 1:1000 (under 20x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed RT-4 cells using PTPRF antibody (33529-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).