

# PTPRF Polyclonal antibody

Catalog Number: 26860-1-AP

## Basic Information

## Catalog Number:

26860-1-AP

## Size:

150ul, Concentration: 400 µg/ml by Nanodrop;

## Source:

Rabbit

## Isotype:

IgG

## Immunogen Catalog Number:

AG25448

## GenBank Accession Number:

BC048768

## GeneID (NCBI):

5792

## UNIPROT ID:

P10586

## Full Name:

protein tyrosine phosphatase, receptor type, F

## Calculated MW:

1898 aa, 212 kDa

## Observed MW:

70-72 kDa, 150 kDa

## Purification Method:

Antigen affinity purification

## Recommended Dilutions:

WB 1:1000-1:6000

## Applications

## Tested Applications:

WB, ELISA

## Species Specificity:

human

## Positive Controls:

WB: MCF-7 cells, MKN-45 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 72kDa 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

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

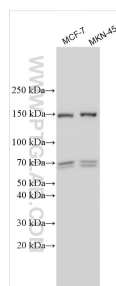
For technical support and original validation data for this product please contact:

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W: [ptglab.com](http://ptglab.com)

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 26860-1-AP (PTPRF antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.