



Anti-PTPRF (aa 1788-1897) polyclonal antibody (DPAB-DC2621)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description

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 possesses an extracellular region, a single transmembrane region, and two tandem intracytoplasmic catalytic domains, and thus represents a receptor-type PTP. The extracellular region contains three Ig-like domains, and nine non-Ig like domains similar to that of neural-cell adhesion molecule. This PTP was shown to function in the regulation of epithelial cell-cell contacts at adherents junctions, as well as in the control of beta-catenin signaling. An increased expression level of this protein was found in the insulin-responsive tissue of obese, insulin-resistant individuals, and may contribute to the pathogenesis of insulin resistance. Two alternatively spliced transcript variants of this gene, which encode distinct proteins, have been reported.

Immunogen

PTPRF (NP_002831, 1788 a.a. ~ 1897 a.a) partial recombinant protein with GST tag.
The sequence is
FQFTDWPEQGVPKTGEGFIDFIGVHKTEQFGQDGPITVHCSAGVGRTGVFITLSIVLE
RMRYEGVVDMFQTVKTLRTQRPAMVQTEDQYQLCYRAALEYLG SFDHYAT

Source/Host

Mouse

Species Reactivity

Human

Conjugate

Unconjugated

Applications

WB (Recombinant protein), ELISA,

Size

50 µl

Buffer

50 % glycerol

Preservative	None
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PTPRF protein tyrosine phosphatase, receptor type, F [Homo sapiens (human)]
Official Symbol	PTPRF
Synonyms	PTPRF; protein tyrosine phosphatase, receptor type, F; LAR; receptor-type tyrosine-protein phosphatase F; LCA-homolog; leukocyte common antigen related; leukocyte antigen-related (LAR) PTP receptor; leukocyte antigen-related tyrosine phosphatase; receptor-linked protein-tyrosine phosphatase LAR; protein tyrosine phosphatase, receptor type, F polypeptide;
Entrez Gene ID	5792
Protein Refseq	NP_002831
UniProt ID	P10586
Chromosome Location	1p34
Pathway	Adherens junction; Cell adhesion molecules (CAMs); Insulin signaling pathway;
Function	heparin binding; protein tyrosine phosphatase activity; transmembrane receptor protein tyrosine phosphatase activity;