

## PZR (Phospho Tyr241) Rabbit pAb

CatalogNo: YP1454

### Key Features

#### Host Species

- Rabbit

#### Reactivity

- Human, Mouse, Rat

#### Applications

- WB, ELISA, IHC

#### MW

- 30kD (Observed)

#### Isotype

- IgG

### Storage

**Storage\*** -15°C to -25°C/1 year (Do not lower than -25°C)

**Formulation** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

### Recommended Dilution Ratios

**WB 1:500-2000**

**IHC 1:50-300**

**ELISA 1:2000-20000**

### Basic Information

**Clonality** Polyclonal

### Immunogen Information

**Immunogen** Synthesized phospho peptide around human PZR (Tyr241)

**Specificity** This antibody detects endogenous levels of Human Mouse Rat PZR (phospho-Tyr241)

### Target Information

**Gene name** MPZL1 PZR UNQ849/PRO1787

**Protein Name**

PZR (Tyr241)

Organism	Gene ID	UniProt ID
Human	<a href="#">9019</a> ;	<a href="#">O95297</a> ;
Mouse	<a href="#">68481</a> ;	<a href="#">Q3TEW6</a> ;
Rat	<a href="#">360871</a> ;	<a href="#">Q6AYT8</a> ;

**Cellular Localization**

Membrane ; Single-pass type I membrane protein .

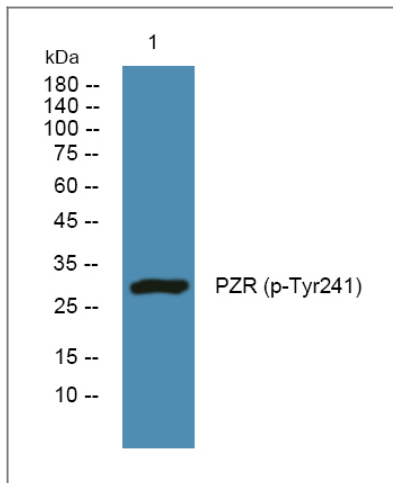
**Tissue specificity**

Widely expressed with highest levels in heart , placenta , kidney and pancreas. Isoform 3 is relatively abundant in hematopoietic tissues and fetal liver. Isoform 1 and isoform 3 are expressed in CD14- PB monocytes and pre-B cell progenitors. Isoform 3 appears to be the major isoform in CD34- promyelocytic and promonocytic cells. During differentiation in monocytic cells , the expression level of isoform 3 decreases and that of isoform 1 increases. Isoform 1 is prominent in stromal cells and , to a lesser extent , in umbilical vein endothelial cells and erythroid progenitors. Isoform 2 is expressed in a erythroid progenitor cell line.

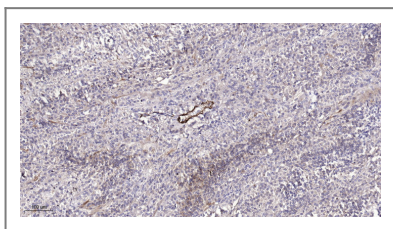
**Function**

Domain:Contains 2 copies of a cytoplasmic motif that is referred to as the immunoreceptor tyrosine-based inhibitor motif (ITIM) . This motif is involved in modulation of cellular responses. The phosphorylated ITIM motif can bind the SH2 domain of several SH2-containing phosphatases. ,Function:Cell surface receptor , which is involved in signal transduction processes. Recruits PTPN11/SHP-2 to the cell membrane and is a putative substrate of PTPN11/SHP-2. Is a major receptor for concanavalin A (ConA) and is involved in cellular signaling induced by ConA , which probably includes Src family tyrosine-protein kinases. Isoform 3 seems to have a dominant negative role; it blocks tyrosine phosphorylation of MPZL1 induced by ConA. Isoform 1 , but not isoform 2 and isoform 3 , may be involved in regulation of integrin-mediated cell motility. ,PTM:N-glycosylated. ,PTM:Phosphorylated on tyrosine residues upon stimulation with pervanadate and concanavalin A (ConA) . Phosphorylation at Tyr-241 and Tyr-263 is required for interaction with PTPN11/SHP-2. Dephosphorylated by PTPN11/SHP-2 (in vitro) . ,similarity:Belongs to the myelin P0 protein family. ,similarity:Contains 1 Ig-like V-type (immunoglobulin-like) domain. ,subunit:Interacts with phosphorylated PTPN11/SHP-2. ,tissue specificity:Widely expressed with highest levels in heart , placenta , kidney and pancreas. Isoform 3 is relatively abundant in hemotopoietic tissues and fetal liver. Isoform 1 and isoform 3 are expressed in CD14- PB monocytes and pre-B cell progenitors. Isoform 3 appears to be the major isoform in CD34- promyelocytic and promonocytic cells. During differentiation in monocytic cells , the expression level of isoform 3 decreases and that of isoform 1 increases. Isoform 1 is prominent in stromal cells and , to a lesser extent , in umbelical vein endothelial cells and erythroid progenitors. Isoform 2 is expressed in a erythroid progenitor cell line. ,

**Validation Data**



Western blot analysis of lysates from SW480 cells, primary antibody was diluted at 1:1000, 4°C over night



Immunohistochemical analysis of paraffin-embedded human Colon cancer. 1, Antibody was diluted at 1:200 (4°C overnight). 2, Tris-EDTA, pH9.0 was used for antigen retrieval. 3, Secondary antibody was diluted at 1:200 (room temperature, 45min).

## Contact information

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