

**CD9P1**  
**Catalog # PVGS1905****Specification**

---

**CD9P1 - Product Information**

Primary Accession [Q9WV91](#)  
**Species**  
Mouse

**Sequence**  
Arg22-Pro832

**Purity**  
> 95% as determined by Bis-Tris PAGE

**Endotoxin Level**  
Less than 1EU per µg by the LAL method.

**Expression System**  
HEK293

**Theoretical Molecular Weight**  
92.21 kDa

Formulation **Lyophilized from a 0.22 µm filtered solution in PBS, (pH 7.4).**

**Reconstitution**  
Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.

**Storage & Stability**  
Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

**CD9P1 - Additional Information**

**Gene ID** 19221

**Other Names**  
Prostaglandin F2 receptor negative regulator, CD9 partner 1, CD9P-1, Glu-Trp-Ile EWI motif-containing protein F, EWI-F, Prostaglandin F2-alpha receptor regulatory protein, Prostaglandin F2-alpha receptor-associated protein, CD315, Ptgfrn, Fprp

**Target Background**  
The membrane protein CD9P-1 is a major component of the tetraspanin web, a network of molecular interactions in the plasma membrane, in which it specifically associates with tetraspanins CD9 and CD81. All CD9P-1 isoforms associate with CD9 leading to additional level of complexity of this primary complex in the tetraspanin web.

## **CD9P1 - Protein Information**

**Name** Ptgfrn

**Synonyms** Fprp

### **Function**

Inhibits the binding of prostaglandin F2-alpha (PGF2-alpha) to its specific FP receptor, by decreasing the receptor number rather than the affinity constant. Functional coupling with the prostaglandin F2-alpha receptor seems to occur (By similarity). In myoblasts, associates with tetraspanins CD9 and CD81 to prevent myotube fusion during muscle regeneration.

### **Cellular Location**

Endoplasmic reticulum membrane; Single-pass type I membrane protein. Golgi apparatus, trans-Golgi network membrane; Single-pass type I membrane protein

### **Tissue Location**

Expressed in myoblasts (at protein level).

## **CD9P1 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## **CD9P1 - Images**