

## Product datasheet for **TP727018**

### PDPN Human Recombinant Protein

#### Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant Human Podoplanin/PDPN/Aggrus (C-Fc)
Species:	Human
Expression cDNA Clone or AA Sequence:	Ala23-Leu131
Tag:	C-Fc
Buffer:	Lyophilized from a 0.2 um filtered solution of PBS, pH 7.4.
Note:	Recombinant Human Podoplanin is produced by our Mammalian expression system and the target gene encoding Ala23-Leu131 is expressed with a Fc tag at the C-terminus.
Stability:	12 months from date of despatch
Locus ID:	10630
UniProt ID:	<a href="#">Q86YL7</a>
Summary:	<p>Podoplanin is a type-1 transmembrane protein that belongs to Podoplanin family. PDPN expressed in various specialized cell types throughout the body. It highly expressed in placenta, lung, skeletal muscle and brain, weakly expressed in brain, kidney and liver. In placenta, PDPN expressed on the apical plasma membrane of endothelium, in lung, expressed in alveolar epithelium. PDPN physiological function is related to its mucin-type character. PDPN may be involved in cell migration and/or actin cytoskeleton organization. When expressed in keratinocytes, induces changes in cell morphology with transfected cells showing an elongated shape, numerous membrane protrusions, and major reorganization of the actin cytoskeleton, increased motility and decreased cell adhesion. It requires for normal lung cell proliferation and alveolus formation at birth and induces platelet aggregation. Nevertheless, it doesn't have any effect on amino acid transport and the aquaporin-type water channels.</p>



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