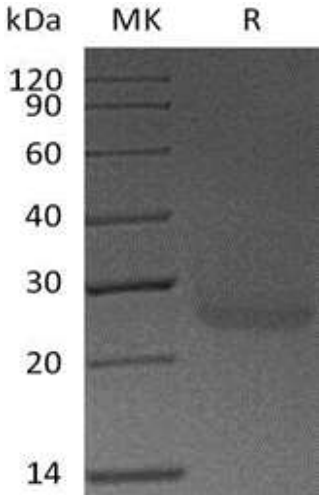
Recombinant Human PDPN (C-6His)

Catalog No: C528

Description	Recombinant Human Podoplanin is produced by our Mammalian expression system and the target gene encoding Ala23-Leu131 is expressed with a 6His tag at the C-terminus.
Source	Human Cells
Alternative name	Podoplanin; Aggrus; Glycoprotein 36; Gp36; PA2.26 Antigen; T1-Alpha; T1A; PDPN; GP36
Accession No.	Q86YL7
Formulation	Lyophilized from a 0.2 μm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100μg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Quality Control	Purity: Greater than 95% as determined by reducing SDS-PAGE. Endotoxin: Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.
Storage	Store at < -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.
Background	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.

SDS-Page



MK: Marker

R: Sample under reducing conditions