Recombinant Human Syndecan-4 Protein

Catalog No.: RP03558

Sequence Information

Species
Human

Gene ID
6385

Swiss Prot
P31431

Tags
C-His

Synonyms
Syndecan-4, SYND4, Amphiglycan, Ryudocan core protein,SDC4

Product Information

Source
HEK293 Cells

Purification
> 95 % as determined by SDS-PAGE.

Calculated MW
15.3 kDa

Observed MW
25-35 kDa

Endotoxin
< 1.0 EU per μg protein as determined by the LAL method.

Formulation
Lyophilized from sterile PBS, pH 7.4.
Please contact us for any concerns or special requirements.
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Syndecan-4 is a transmembrane heparan sulfate proteoglycan that co-operates with integrins during cell-matrix interactions for the assembly of focal adhesions and actin stress fibers and in the phosphorylation of focal adhesion kinase (FAK) on Tyr397. Syndecan-4 plays roles in the formation of focal adhesions and stress fibers. The cytoplasmic domain of syndecan-4 interacts with several signalling and structural proteins, and both extracellular and cytoplasmic domains are necessary for regulated activation of associated transmembrane receptors. Syndecan-4/SDC4 is a heparan sulfate proteoglycan and works as a coreceptor for various growth factors. SDC4 deficiency limits neointimal formation after vascular injury by regulating vascular smooth muscle cells (VSMCs) proliferation and vascular progenitor cells (VPCs) mobilization. Therefore, SDC4 may be a novel therapeutic target for preventing arterial restenosis after angioplasty.

Basic Information

Description
Recombinant Human Syndecan-4 Protein is produced by HEK293 cells system. The target protein is expressed with sequence (Met1-Glu145) of Human Syndecan-4 (Accession #NP_002990.2) fused with His at the C-Terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

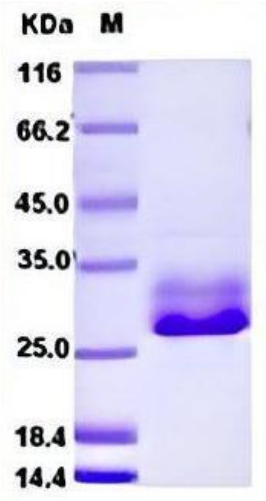
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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For research use only. Not for therapeutic or diagnostic purposes.
Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human Syndecan-4 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.