Rat Syndecan-1 / SDC1 / CD138 Protein (Fc Tag)

Catalog Number: 80344-R02H



General Information

Gene Name Synonym:

SDC1

Protein Construction:

A DNA sequence encoding the rat SDC1 (P26260) (Met1-Lys253) was expressed, fused with the Fc region of human IgG1 at the C-terminus.

Source: Rat

Expression Host: HEK293 Cells

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Bio Activity:

1. Measured by its binding ability in a functional ELISA. Immobilized human PTN (Cat:10288-HNAB) at 10 μ g/ml (100 μ l/well) can bind rat SDC1-Fc (Cat:80344-R02H), The EC₅₀ of rat SDC1-Fc (Cat:80344-R02H) is 0.35-0.81 μ g/ml. 2. Measured by its binding ability in a functional ELISA. Immobilized mouse PTN (Cat:51000-MNAB) at 10 μ g/ml (100 μ l/well) can bind rat SDC1-Fc, The EC50 of rat SDC1-Fc is 0.4-1.1 μ g/ml.

Endotoxin:

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

Stability:

Samples are stable for up to twelve months from date of receipt $\,$ at -70 $\,$ $^{\circ}\mathrm{C}$

Predicted N terminal: Gln 23

Molecular Mass:

The recombinant rat SDC1/Fc is a disulfide-linked homodimer. The reduced monomer comprises 472 amino acids and has a predicted molecular mass of 51.2 kDa. The apparent molecular mass of the protein is approximately 92 kDa in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

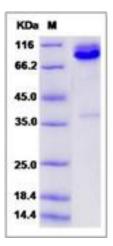
Store it under sterile conditions at -20° C to -80° C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Syndecan-1 also known as SDC1 and CD138, is the most extensively studied member of the syndecan family. It is found mainly in epithelial cells, but its expression is developmentally regulated during embryonic development. Syndecan-1/SDC1/CD138 has been shown to mediate cell adhesion to several ECM molecules, and to act as a coreceptor for fibroblast growth factors, potent angiogenic growth factors involved also in differentiation. Syndecan-1/SDC1/CD138 expression is reduced during malignant transformation of various epithelia, and this loss correlates with the histological differentiation grade of squamous cell carcinomas, lacking from poorly differentiated tumours. In squamous cell carcinomas of the head and neck, positive syndecan-1 expression correlates with a more favourable prognosis. Experimental studies on the role of Syndecan-1 in malignant transformation have shown that Syndecan-1/SDC1/CD138 expression is associated with the maintenance of epithelial morphology, anchorage-dependent growth and inhibition of invasiveness in vitro.

References

1.Inki P, et al. (1996) The role of syndecan-1 in malignancies. Ann Med. 28(1): 63-7. 2.Subramanian SV, et al. (1997) Regulated shedding of syndecan-1 and -4 ectodomains by thrombin and growth factor receptor activation. J Biol Chem. 272(23): 14713-20. 3.Park PW, et al. (2001) Exploitation of syndecan-1 shedding by Pseudomonas aeruginosa enhances virulence. Nature. 411(6833): 98-102.

Manufactured By Sino Biological Inc., FOR RESEARCH USE ONLY. NOT FOR USE IN HUMANS.

For US Customer: Fax: 267-657-0217 • Tel: 215-583-7898

Global Customer: Fax :+86-10-5862-8288 • Tel:+86-400-890-9989 • http://www.sinobiological.com