

# Product Information

## Recombinant Anti-Human SDC1 Antibody Fab Fragment

Cat. No.: **MOM-18197-F(P)**

This product is for research use only and is not intended for diagnostic use.

### Product Overview

Recombinant Chimeric (mouse/human) Antibody Fab Fragment is against Human SDC1, expressed in E. coli

### Antigen Description

The protein encoded by this gene is a transmembrane (type I) heparan sulfate proteoglycan and is a member of the syndecan proteoglycan family. The syndecans mediate cell binding, cell signaling, and cytoskeletal organization and syndecan receptors are required for internalization of the HIV-1 tat protein. The syndecan-1 protein functions as an integral membrane protein and participates in cell proliferation, cell migration and cell-matrix interactions via its receptor for extracellular matrix proteins. Altered syndecan-1 expression has been detected in several different tumor types. While several transcript variants may exist for this gene, the full-length nature of only two have been described to date. These two represent the major variants of this gene and encode the same protein.

### Specific Activity

Tested positive against native antigen.

### Target

SDC1

### Immunogen

U266 cell line

### Source

Chimeric (mouse/human)

### Species Reactivity

Human

### Type

Fab Fragment based on Chimeric (mouse/human) IgG4 - kappa

### Expression Host

E. coli

### Purity

>95.0% as determined by analysis by RP-HPLC.

### Applications

Suitable for use in FC, IP, ELISA, Neut, FuncS, IF and most other immunological methods.

### Storage

Store at -20°C for long-term storage. Store at 2-8°C for up to one month. Avoid freeze/thaw cycles.

## ANTIGEN GENE INFORMATION

### Gene Name

[SDC1 syndecan 1 \[ Homo sapiens \]](#)

### Official Symbol

SDC1

### Synonyms

SDC1; syndecan 1; SDC; syndecan-1; CD138; SYND1; syndecan; syndecan proteoglycan 1; CD138 antigen; heparan sulfate proteoglycan fibroblast growth factor receptor;

### Gene ID

[6382](#)

### mRNA Refseq

[NM\\_001006946](#)

### Protein Refseq

[NP\\_001006947](#)

### MIM

[186355](#)

### UniProt ID

P18827

### Chromosome Location

2p24.1

### Pathway

Arf6 trafficking events, organism-specific biosystem; Cell adhesion molecules (CAMs), organism-specific biosystem; Cell adhesion molecules (CAMs), conserved biosystem; Chylomicron-mediated lipid transport, organism-specific biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Integrins in angiogenesis, organism-specific biosystem;

### Function

cytoskeletal protein binding; glycoprotein binding; lipoprotein lipase activity; protein C-terminus binding; protein binding;