Syndecan 3 (SDC3) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Syndecan 3 (Sdc3), ELISA Kit
Full Product Name	Mouse Syndecan 3 ELISA Kit
Product Gene Name	Sdc3 elisa kit
Species Reactivity	Mouse
Assay Type	sandwich
Samples	cell culture supernates, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	156pg/ml-10000pg/ml
Sensitivity	<10pg/ml
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles. (Shipped with wet ice)
Molecular Weight	46,002 Da
3D Structure	ModBase 3D Structure for Q64519
Detection Target	Syndecan 3
Immunogen Sequence	369
Cross-Reactivity	There is no detectable cross-reactivity with other relevant proteins.
Related Product Information for Sdc3 elisa kit	This Mouse Syndecan 3 ELISA Kit is intended for quantitative detection of mouse Syndecan-3 in cell culture supernates, cell lysates, serum and plasma (heparin, EDTA). Strip well format. Reagents for up to 96 tests. This mouse Syndecan-3 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for Syndecan-3 has been precoated onto 96-well plates. Standards (Expression system for standard: NSO, Immunogen sequence: A45-V387) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Syndecan-3 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse Syndecan-3 amount of sample captured in plate. The capture antibody is a monoclonal antibody from rat, the detection antibody is a biotinylated polyclonal antibody from goat. Expression system for standard: Syndecan-3 is a protein that in humans is encoded by the SDC3 gene. The protein encoded by this gene belongs to the syndecan proteoglycan family, which was assigned to human chromosome 1p35.2, and it showed that in the mouse the Synd3 gene maps to chromosome 4 near the Lmyc gene. The transfection of SDC3 resulted in the formation of long filopodia-like structures, microspikes, and varicosities in several cell lines. Besides, the gene plays a role in the organization of cell shape by affecting the actin cytoskeleton, possibly by transferring signals from the cell surface in a sugar-dependent mechanism. Allelic variants of this gene have been associated with obesity.
Other Notes	Small volumes of Sdc3 elisa kit vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

Searchable Terms for Sdc3 purchase	MBS8420865 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Syndecan 3 (Sdc3) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing Sdc3. The ELISA analytical biochemical technique of the MBS8420865 kit is based on Sdc3 antibody-Sdc3 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect Sdc3 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, Sdc3. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Sdc3. It may not necessarily be applicable to this product.

NCBI GI #	114152874
NCBI GeneID	20970
NCBI Accession #	Q64519.2
UniProt Primary Accession #	Q64519
UniProt Secondary Accession #	Q3UDD9; Q6ZQA4; Q7TQD4
UniProt Related Accession #	Q64519
NCBI Official Full Name	Syndecan-3
NCBI Official Synonym Full Names	syndecan 3
NCBI Official Symbol	Sdc3
NCBI Official Synonym Symbols	Synd3; syn-3; mKIAA0468
UniProt Protein Name	Syndecan-3
Protein Family	Syndecan
UniProt Gene Name	Sdc3
UniProt Synonym Gene Names	Kiaa0468; SYND3
UniProt Entry Name	SDC3_MOUSE
NCBI Protein Information	syndecan-3
UniProt Comments for Sdc3	syndecan-3: Cell surface proteoglycan that may bear heparan sulfate. May have a role in the organization of cell shape by affecting the actin cytoskeleton, possibly by transferring signals from the cell surface in a sugar-dependent mechanism. Belongs to the syndecan proteoglycan family. Protein type: Membrane protein, integral; Cell adhesion; Motility/polarity/chemotaxis; Receptor, misc. Cellular Component: neuron projection; protein complex; membrane; axon; integral to membrane Biological Process: cell adhesion
Research Articles on Sdc3	**1.** Syndecan-3 limits cocaine intake by modulating the effects of glial-cell-line-derived neurotrophic factor, which uses syndecan-3 as an alternative receptor.
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