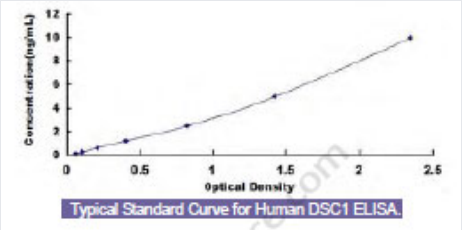
Desmocollin 1 (DSC1) ELISA Kit for Human

PRODUCT OVERVIEW

Product Name	Desmocollin 1 (DSC1), ELISA Kit
Full Product Name	Human Desmocollin 1 (DSC1) ELISA Kit
Product Gene Name	DSC1 elisa kit
Product Synonym Names	CDHF1; DG2/DG3; Cadherin family member 1; Desmosomal glycoprotein 2/3
Species Reactivity	Human
Assay Type	Sandwich
Samples	Tissue homogenates, cell lysates and other biological fluids.
Detection Range	0.156-10ng/mL
Sensitivity	0.057ng/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of DSC1. No significant cross-reactivity or interference between DSC1 and analogues was observed.
Preparation and Storage	For unopened kit, all reagents should be kept according to the labels on vials. The TMB Substrate, Wash Buffer, Stop Solution should be stored at 4 degree C. All others should be stored at -20 degree C.
Inter-assay Precision	Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level DSC1 were tested on 3 different plates, 8 replicates in each plate. CV(%) = SD/meanX100. Inter-Assay: CV<12%
Intra-assay Precision	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level DSC1 were tested 20 times on one plate, respectively. Intra-Assay: CV<10%
Molecular Weight	93,835 Da
OMIM	Z34522 mRNA
3D Structure	ModBase 3D Structure for Q08554
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Related Product Information for DSC1 elisa kit	Intended Uses: The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of DSC1 in human tissue homogenates, cell lysates and other biological fluids. Principle of the Assay: The microtiter plate provided in this kit has been pre-coated with an antibody specific to DSC1. Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody preparation specific to DSC1. Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain DSC1, biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm +/- 10nm. The concentration of DSC1 in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of DSC1 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 DSC1 purchase	MBS450377 is a ready-to-use microwell, strip-or-full plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Desmocollin 1 (DSC1) 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 DSC1. The ELISA analytical biochemical technique of the MBS450377 kit is based on DSC1 antibody-DSC1 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DSC1 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DSC1. 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(%).



Typical Testing Data/Standard Curve (for reference only) of DSC1 elisa kit

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DSC1. It may not necessarily be applicable to this product.

NCBI GI #	4826702
NCBI GeneID	1823
NCBI Accession #	NP_004939.1
UniProt Primary Accession #	Q08554
UniProt Secondary Accession #	Q9HB01
UniProt Related Accession #	Q08554
GenBank Nucleotide #	NM_004948.3
NCBI Official Full Name	desmocollin-1 isoform Dsc1b
NCBI Official Synonym Full Names	desmocollin 1
NCBI Official Symbol	DSC1
NCBI Official Synonym Symbols	CDHF1; DG2/DG3
UniProt Protein Name	Desmocollin-1
UniProt Synonym Protein Names	Cadherin family member 1; Desmosomal glycoprotein 2/3; DG2/DG3
Protein Family	Desmocollin
UniProt Gene Name	DSC1
UniProt Synonym Gene Names	CDHF1; DG2/DG3
NCBI Protein Information	desmocollin-1
NCBI Summary for DSC1	The protein encoded by this gene is a calcium-dependent glycoprotein that is a member of the desmocollin subfamily of the cadherin superfamily. These desmosomal family members, along with the desmogleins, are found primarily in epithelial cells where they constitute the adhesive proteins of the desmosome cell-cell junction and are required for cell adhesion and desmosome formation. A subtype of IgA pemphigus, a life-threatening autoimmune disease, is characterized by the presence of autoantibodies that target the encoded protein. The desmosomal family members are arranged in two clusters on chromosome 18. Alternative splicing of this gene results in multiple transcript variants. At least one of these variants encodes a preproprotein that is proteolytically processed to generate the mature protein. [provided by RefSeq, Nov 2015]

UniProt Comments for DSC1	Component of intercellular desmosome junctions. Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion. May contribute to epidermal cell positioning (stratification) by mediating differential adhesiveness between cells that express different isoforms. Linked to the keratinization of epithelial tissues.
Research Articles on DSC1	**1.** Low expression of DSC 1, 2, and 3 was observed in 55, 54, and 79 % of liver metastases.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/human-elisa-kits/desmocollin-1-dsc1/450377