Dentin Sialo (DSP) ELISA Kit for Bovine

PRODUCT OVERVIEW

Product Name	Dentin Sialo Protein (DSP), ELISA Kit
Full Product Name	Bovine Dentin Sialo Protein ELISA Kit
Product Gene Name	DSP elisa kit
Species Reactivity	Bovine
Assay Type	Sandwich
Preparation and Storage	Store all reagents at 2-8 degree C
Molecular Weight	331,774 Da
OMIM	125647
3D Structure	ModBase 3D Structure for P15924
Related Product Information for DSP elisa kit	MBS019253 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Dentin Sialo Protein (DSP) 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 DSP. The ELISA analytical biochemical technique of the MBS019253 kit is based on DSP antibody-DSP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect DSP antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, DSP. 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(%).
Other Notes	Small volumes of DSP 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.

ADDITIONAL DETAILS

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

NCBI GI #	58530842
NCBI GeneID	1832
NCBI Accession #	NP_001008844.1
UniProt Primary Accession #	P15924
UniProt Secondary Accession #	O75993; Q14189; Q9UHN4; B2RTT2; D7RX09
UniProt Related Accession #	P15924
GenBank Nucleotide #	NM_001008844.1
NCBI Official Full Name	desmoplakin isoform II
NCBI Official Synonym Full Names	desmoplakin
NCBI Official Symbol	DSP
NCBI Official Synonym Symbols	DP; DPI; DPII
UniProt Protein Name	Desmoplakin
UniProt Synonym Protein Names	250/210 kDa paraneoplastic pemphigus antigen

Protein Family	Desmoplakin
UniProt Gene Name	DSP
UniProt Synonym Gene Names	DP
UniProt Entry Name	DESP_HUMAN
NCBI Protein Information	desmoplakin; desmoplakin I; desmoplakin II; 250/210 kDa paraneoplastic pemphigus antigen
NCBI Summary for DSP	Desmosomes are intercellular junctions that tightly link adjacent cells. Desmoplakin is an obligate component of functional desmosomes that anchors intermediate filaments to desmosomal plaques. The N-terminus of desmoplakin is required for localization to the desmosome and interacts with the N-terminal region of plakophilin 1 and plakoglobin. The C-terminus of desmoplakin binds with intermediate filaments. In the mid-region of desmoplakin, a coiled-coiled rod domain is responsible for homodimerization. Mutations in this gene are the cause of several cardiomyopathies and keratodermas as well as the autoimmune disease paraneoplastic pemphigus. [provided by RefSeq, Jul 2008]
UniProt Comments for DSP	Desmoplakin: Major high molecular weight protein of desmosomes. Involved in the organization of the desmosomal cadherin- plakoglobin complexes into discrete plasma membrane domains and in the anchoring of intermediate filaments to the desmosomes. Homodimer. Interacts with COL17A1 (via cytoplasmic region). Associates (via C-terminal) with KRT5-KRT14 (via rod region), KRT8-KRT18 and VIM intermediate filaments. Interacts with DSC2. Isoform DPI is apparently an obligate constituent of all desmosomes. Isoform DPII resides predominantly in tissues and cells of stratified origin. Belongs to the plakin or cytolinker family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Cell adhesion; Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 6p24 Cellular Component: desmosome; mitochondrion; basolateral plasma membrane; plasma membrane; intermediate filament; cornified envelope; fascia adherens; nucleus Molecular Function: protein binding, bridging; protein binding; protein kinase C binding; structural constituent of cytoskeleton; cell adhesion molecule binding; structural molecule activity Biological Process: keratinocyte differentiation; epidermis development; cell-cell adhesion; wound healing; apoptosis; intermediate filament organization; peptide cross-linking; cell structure disassembly during apoptosis Disease: Cardiomyopathy, Dilated, With Woolly Hair And Keratoderma; Arrhythmogenic Right Ventricular Dysplasia, Familial, 8; Keratosis Palmoplantaris Striata Ii; Cardiomyopathy, Dilated, With Woolly Hair, Keratoderma, And Tooth Agenesis; Skin Fragility-woolly Hair Syndrome; Epidermolysis Bullosa, Lethal Acantholytic
Research Articles on DSP	**1.** Arrhythmogenic right ventricular cardiomyopathy patients of a three-generation Spanish family with a novel nonsense genetic variation in the DSP gene.
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