DSG1 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	DSG1, Blocking Peptide
Full Product Name	DSG1 Blocking Peptide
Product Gene Name	DSG1 blocking peptide
Product Synonym Names	Cadherin family member 4; CDHF4; Desmoglein-1; Desmosomal glycoprotein 1; DG1; DGI; DSG; DSG1; DSG1_HUMAN; EPKHE; EPKHIA; Pemphigus foliaceus antigen; PPKS1; SPPK1
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	DSG1 peptide (MBS9624992) is used for blocking the activity of DSG1 antibody (MBS9606275)
Molecular Weight	113,748 Da
Chromosome Location	Chromosome: 18; NC_000018.9 (28898052..28937394). Location: 18q12.1
OMIM	125670
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for DSG1 blocking peptide	Blocking/Control
Related Product Information for DSG1 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of DSG1 blocking peptide 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 DSG1 purchase	MBS9624992 is a blocking peptide targeting DSG1.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for DSG1. It may not necessarily be applicable to this product.

NCBI GI #	119703744
NCBI GeneID	1828
NCBI Accession #	NP_001933.2
UniProt Primary Accession #	Q02413
UniProt Secondary Accession #	B7Z845

UniProt Related Accession #	Q02413
GenBank Nucleotide #	NM_001942.3
NCBI Official Full Name	desmoglein-1 preproprotein
NCBI Official Synonym Full Names	desmoglein 1
NCBI Official Symbol	DSG1
NCBI Official Synonym Symbols	DG1; DSG; CDHF4; PPKS1; SPPK1
UniProt Protein Name	Desmoglein-1
UniProt Synonym Protein Names	Cadherin family member 4; Desmosomal glycoprotein 1; DG1; DGI; Pemphigus foliaceus antigen
Protein Family	Desmoglein
UniProt Gene Name	DSG1
UniProt Synonym Gene Names	CDHF4; DG1; DGI
UniProt Entry Name	DSG1_HUMAN
NCBI Protein Information	desmoglein-1; DGI; cadherin family member 4; desmosomal glycoprotein 1; pemphigus foliaceus antigen
NCBI Summary for DSG1	Desmosomes are cell-cell junctions between epithelial, myocardial and certain other cell types. Desmoglein 1 is a calcium-binding transmembrane glycoprotein component of desmosomes in vertebrate epithelial cells. Currently, three desmoglein subfamily members have been identified and all are members of the cadherin cell adhesion molecule superfamily. These desmoglein gene family members are located in a cluster on chromosome 18. The protein encoded by this gene has been identified as the autoantigen of the autoimmune skin blistering disease pemphigus foliaceus. [provided by RefSeq, Jul 2008]
UniProt Comments for DSG1	DSG1: Component of intercellular desmosome junctions. Involved in the interaction of plaque proteins and intermediate filaments mediating cell-cell adhesion. Defects in DSG1 are the cause of palmoplantar keratoderma striate type 1 (SPPK1); also known as keratosis palmoplantaris striata I. SPPK1 is a dermatoligical disorder characterized by thickening of the skin on the palms and soles, and longitudinal hyperkeratotic lesions on the palms, running the length of each finger. Protein type: Cell adhesion; Membrane protein, integral Chromosomal Location of Human Ortholog: 18q12.1 Cellular Component: desmosome; internal side of plasma membrane; apical plasma membrane; integral to membrane; plasma membrane; intercellular junction; cytosol; lateral plasma membrane Molecular Function: toxin binding; gamma-catenin binding; calcium ion binding Biological Process: intercellular junction assembly; cell-cell adhesion; maternal process involved in pregnancy; protein stabilization; apoptosis; calcium-dependent cell-cell adhesion; response to progesterone stimulus; homophilic cell adhesion; cell structure disassembly during apoptosis Disease: Palmoplantar Keratoderma I, Striate, Focal, Or Diffuse; Erythroderma, Congenital, With Palmoplantar Keratoderma, Hypotrichosis, And Hyper-ige
Research Articles on DSG1	**1.** DSG1 and Erbin cooperate to repress MAPK signaling and promote keratinocyte differentiation.
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