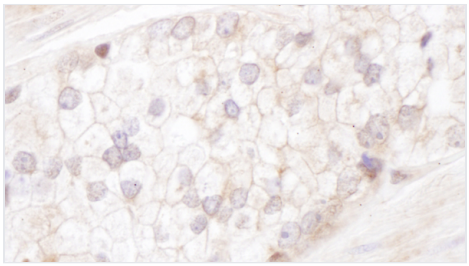
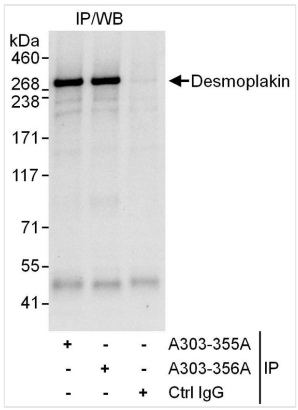
Desmoplakin (DSP) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Desmoplakin (DSP), Polyclonal Antibody
Full Product Name	Rabbit anti-Desmoplakin Antibody, Affinity Purified
Product Gene Name	anti-DSP antibody
Product Synonym Names	DP; desmoplakin; 250/210 kDa paraneoplastic pemphigus antigen; DCWHKTA; Desmoplakin; desmoplakin
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Liquid. Whole IgG. Tris-citrate/phosphate buffer, pH 7 to 8 containing 0.09% Sodium Azide
Purity/Purification	Antigen Affinity Purified
Concentration	1000ug/ml (lot specific)
Preparation and Storage	Store at 2-8 degree C Shelf Life: 1 year from date of receipt
Molecular Weight	278,916 Da
OMIM	125647
3D Structure	ModBase 3D Structure for P15924
Immunogen	Between 1925 and 1975
Conjugation	Unconjugated
Product Categories/Family for anti-DSP antibody	Primary Antibodies
Applications Tested/Suitable for anti-DSP antibody	Immunoprecipitation (IP), Immunohistochemistry (IHC)
Application Notes for anti-DSP antibody	IP: 6ug/mg lysate IHC: 1:500-1:2000. Epitope retrieval with citrate buffer pH 6.0 is recommended for FFPE tissue sections.
Related Product Information for anti-DSP antibody	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 DSP, the gene encoding desmoplakin, are the cause of several cardiomyopathies and keratodermas as well as the autoimmune disease paraneoplastic pemphigus [taken from NCBI Entrez Gene (Gene ID: 1832)].
Other Notes	Small volumes of anti-DSP antibody 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 DSP purchase	MBS3903637 is an antibody targeting DSP. Also known as Rabbit anti-Desmoplakin Antibody, Affinity Purified. Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-DSP antibody
Detection of human Desmoplakin by immunohistochemistry. Sample: FFPE section of human prostate carcinoma. Antibody: Affinity purified rabbit anti-Desmoplakin (Cat. No. MBS3903637 Lot1) used at a dilution of 1:1,000 (1ug/ml). Detection: DAB



Immunoprecipitation (IP) of anti-DSP antibody
Detection of human Desmoplakin by western blot of immunoprecipitates. Samples: Whole cell lysate (1 mg for IP, 20% of IP loaded) from HeLa cells. Antibodies: Affinity purified rabbit anti-Desmoplakin antibody MBS3903637 used for IP at 6 ug/mg lysate. Desmoplakin was also immunoprecipitated by rabbit anti-Desmoplakin antibody MBS3903636, which recognizes an upstream epitope. For blotting immunoprecipitated Desmoplakin, MBS3903636 was used at 1 ug/ml. Detection: Chemiluminescence with an exposure time of 10 seconds.

ADDITIONAL DETAILS

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

NCBI GI #	58530840
NCBI GeneID	1832
NCBI Accession #	NP_004406.2
UniProt Primary Accession #	P15924
UniProt Secondary Accession #	O75993; Q14189; Q9UHN4; B2RTT2; D7RX09
UniProt Related Accession #	P15924
GenBank Nucleotide #	NM_004415.2
NCBI Official Full Name	desmoplakin isoform I
NCBI Official Synonym Full Names	desmoplakin
NCBI Official Symbol	DSP
NCBI Official Synonym Symbols	DP; DPI; DPII; DCWHKTA
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: Cytoskeletal; Motility/polarity/chemotaxis; Cell adhesion Chromosomal Location of Human Ortholog: 6p24 Cellular Component: desmosome; mitochondrion; basolateral plasma membrane; plasma membrane; cornified envelope; intermediate filament; 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.** a subset of arrhythmogenic cardiomyopathy mutations, in addition to a mutation associated with skin fragility/woolly hair syndrome, impair gap junction localization and function by misregulating DP-EB1 interactions and altering microtubule dynamics.
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