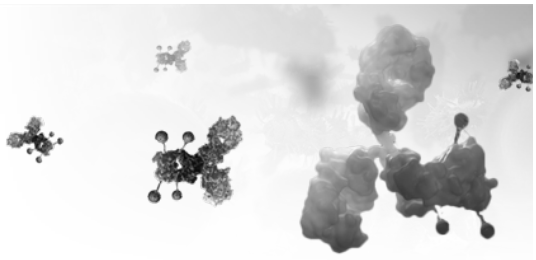

Human DSP peptide (DAG-P0422)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen Description	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]
Specificity	Isoform DPI is apparently an obligate constituent of all desmosomes. Isoform DPII resides predominantly in tissues and cells of stratified origin.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the plakin or cytolinker family.Contains 17 plectin repeats.Contains 1 SH3 domain.Contains 6 spectrin repeats.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	DSP desmoplakin [Homo sapiens (human)]
Official Symbol	DSP

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Synonyms	DSP; desmoplakin; DP; DPI; DPII; desmoplakin I; desmoplakin II; 250/210 kDa paraneoplastic pemphigus antigen;
Entrez Gene ID	1832
mRNA Refseq	NM_001008844.1
Protein Refseq	NP_001008844.1
UniProt ID	P15924
Chromosome Location	6p24
Pathway	Alpha6-Beta4 Integrin Signaling Pathway, organism-specific biosystem; Apoptosis, organism-specific biosystem; Apoptotic cleavage of cell adhesion proteins, organism-specific biosystem; Apoptotic cleavage of cellular proteins, organism-specific biosystem; Apoptotic execution phase, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventr
Function	poly(A) RNA binding; protein binding; protein binding, bridging; protein kinase C binding; scaffold protein binding; structural constituent of cytoskeleton; structural molecule activity;

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