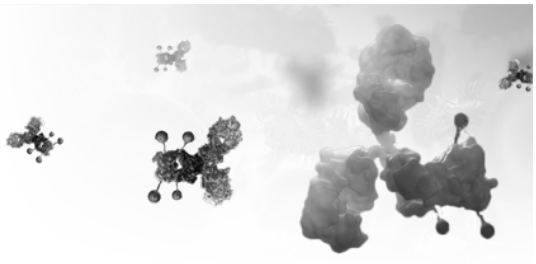

Human GJA1 peptide (DAG-P0052)

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

PRODUCT INFORMATION

Antigen Description	This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. The encoded protein is the major protein of gap junctions in the heart that are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. A related intronless pseudogene has been mapped to chromosome 5. Mutations in this gene have been associated with oculodentodigital dysplasia and heart malformations. [provided by RefSeq, Jul 2008]
Specificity	Expressed in the heart and fetal cochlea.
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the connexin family. Alpha-type (group II) subfamily.
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	GJA1 gap junction protein, alpha 1, 43kDa [Homo sapiens (human)]
Official Symbol	GJA1
Synonyms	GJA1; gap junction protein, alpha 1, 43kDa; HSS; CMDR; CX43; GJAL; ODDD; AVSD3; HLHS1; DFNB38; gap junction alpha-1 protein; connexin 43; connexin-43; gap junction 43 kDa

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	heart protein;
Entrez Gene ID	2697
mRNA Refseq	NM_000165.3
Protein Refseq	NP_000156.1
UniProt ID	P17302
Chromosome Location	6q22.31
Pathway	Arrhythmogenic right ventricular cardiomyopathy, organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), organism-specific biosystem; Arrhythmogenic right ventricular cardiomyopathy (ARVC), conserved biosystem; Calcium Regulation in the Cardiac Cell, organism-specific biosystem; Corticotropin-releasing hormone, organism-specific biosystem; EGFR1 Signaling Pathway, organism-specific biosystem; Formation of annular gap junctions, organism-specific biosystem; Gap juncti
Function	PDZ domain binding; SH3 domain binding; connexin binding; gap junction channel activity; ion transmembrane transporter activity; protein binding; signal transducer activity;

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