GJA1 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	GJA1, Monoclonal Antibody
Full Product Name	GJA1 (Gap Junction Protein, Alpha 1, 43kD, CX43, DFNB38, GJAL, ODDD) (MaxLight 405)
Product Gene Name	anti-GJA1 antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	3E5
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human GJA1.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo only prior to immediate use. Further dilutions can be made in assay buffer. Caution: MaxLight405 conjugates are sensitive to light. For maximum recov of product, centrifuge the original vial prior to removing the cap.
Molecular Weight	43,008 Da
Immunogen	Partial recombinant corresponding to aa261-361 from human GJA1 (AAH26329) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	GSQKYAYFNGCSSPTAPLSPMSPPGYKLVTGDRNNSSCRNYNKQASEQNWANYSAEQNRMGQAGSTISNSHAQPFDFPDDNQNSKKLAAGHELQPLA
Conjugate	MaxLight405
Product Categories/Family for anti-GJA1 antibody	Antibodies; Connexin; Junction Proteins
Applications Tested/Suitable for anti-GJA1 antibody	FLISA, Western Blot (WB)
Application Notes for anti-GJA1 antibody	Applications are based on unconjugated antibody.
Related Product Information for anti-GJA1 antibody	Gap junction protein, alpha 1 is a member of the connexin gene family and a component of gap junctions. Gap junctions are composed of arrays of intercellular channels and provide a route for the diffusion of materials of low molecular weight from cell to cell. Connexin 43 is the major protein of gap junctions in the heart, and gap junctions are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. Connexin 43 is targeted by several protein kinases that regulate myocardial cell-cell coupling. A related intron-less connexin 43 pseudogene, GJA1P, h been mapped to chromosome 5.

Other Notes	Small volumes of anti-GJA1 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessa 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 GJA1 purchase	MBS6190332 is an antibody targeting GJA1. Also known as GJA1 (Gap Junction Protein, Alpha 1, 43kD, CX43, DFNB38, GJAL, ODDD) (MaxLight 405 Reactive in Human. Host: Mouse.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GJA1. It may not necessarily be applicable to this product.

NCBI GI #	20072865
NCBI GeneID	2697
NCBI Accession #	BC026329
NCBI Related Accession #	AAH26329
UniProt Secondary Accession #	Q6FHU1; Q9Y5I8; B2R5U9
UniProt Related Accession #	P17302
NCBI Official Full Name	Homo sapiens gap junction protein, alpha 1, 43kDa, mRNA
NCBI Official Synonym Full Names	gap junction protein alpha 1
NCBI Official Symbol	GJA1
NCBI Official Synonym Symbols	HSS; CMDR; CX43; EKVP; GJAL; ODDD; AVSD3; HLHS1; PPKCA
Protein Family	Gap junction alpha-1 protein
NCBI Protein Information	gap junction alpha-1 protein
NCBI Summary for GJA1	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, autosomal recessive craniometaphyseal dysplasia and heart malformations. [provided by RefSeq, May 2014]
Research Articles on GJA1	**1.** Cx43-Hsc70 interaction regulates cell cycle G1/S progression through a novel mechanism by which Cx43-Hsc70 interaction prevents the nuclear accumulation of p27 through controlling the nuclear translocation of cyclin D1-CDK4-p27 complex.
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