GJB2 Antibody

PRODUCT OVERVIEW

Product Name	GJB2, Antibody
Full Product Name	GJB2 Antibody
Product Gene Name	anti-GJB2 antibody
Molecular Weight	26,215 Da
OMIM	121011
3D Structure	ModBase 3D Structure for P29033
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for anti-GJB2 antibody	MBS8501641 is an antibody targeting GJB2. Also known as GJB2 Antibody.
Other Notes	Small volumes of anti-GJB2 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for GJB2. It may not necessarily be applicable to this product.

NCBI GI #	42558283
NCBI GeneID	2706
NCBI Accession #	NP_003995.2
UniProt Primary Accession #	P29033
UniProt Secondary Accession #	Q508A5; Q508A6; Q5YLL0; Q5YLL1; Q5YLL4; Q6IPV5; Q86U88; Q96AK0; Q9H536; Q9NNY4
UniProt Related Accession #	P29033
GenBank Nucleotide #	NM_004004.5
NCBI Official Full Name	gap junction beta-2 protein
NCBI Official Synonym Full Names	gap junction protein beta 2
NCBI Official Symbol	GJB2
NCBI Official Synonym Symbols	HID; KID; PPK; CX26; DFNA3; DFNB1; NSRD1; DFNA3A; DFNB1A
UniProt Protein Name	Gap junction beta-2 protein
UniProt Synonym Protein Names	Connexin-26; Cx26
Protein Family	Gap junction beta-2 protein
UniProt Gene Name	GJB2
UniProt Synonym Gene Names	Cx26
NCBI Protein Information	gap junction beta-2 protein

NCBI Summary for GJB2	This gene encodes a member of the gap junction protein family. The gap junctions were first characterized by electron microscopy as regionally specialized structures on plasma membranes of contacting adherent cells. These structures were shown to consist of cell-to-cell channels that facilitate the transfer of ions and small molecules between cells. The gap junction proteins, also known as connexins, purified from fractions of enriched gap junctions from different tissues differ. According to sequence similarities at the nucleotide and amino acid levels, the gap junction proteins are divided into two categories, alpha and beta. Mutations in this gene are responsible for as much as 50% of pre-lingual, recessive deafness. [provided by RefSeq, Oct 2008]
UniProt Comments for GJB2	One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low MW diffuse from one cell to a neighboring cell.CautionThe Thr-34 allele was originally thought to be a cause of autosomal dominant and recessive deafness (DFNA3 and DFNB1) (PubMed:9139825). However, Thr-34 effect on hearing is controversial. Some studies supports its pathogenic role (PubMed:17935238 and PubMed:16849369). Others provide evidence of the non-pathogenic nature of this variant (PubMed:9422505 and PubMed:14694360).
Research Articles on GJB2	**1.** Compared with previous studies, we found that the c.109G>A mutation allele of GJB2 was relatively lower in the profound Chinese nonsyndromic sensorineural hearing loss population in comparison to the moderate-to-profound ones, and the c.1174A>T mutation allele of SLC26A4 was relatively higher.
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