

GJB2 Antibody
Catalog # ASC11872**Specification****GJB2 Antibody - Product Information**

Application	WB
Primary Accession	P29033
Other Accession	NP_003995 , 42558283
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	Predicted: 25 kDa
Application Notes	Observed: 26 kDa KDa GJB2 antibody can be used for detection of GJB2 by Western blot at 1 - 2 µg/ml.

GJB2 Antibody - Additional Information

Gene ID 2706

Target/Specificity

GJB2; GJB2 antibody is human specific.

Reconstitution & Storage

GJB2 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

Precautions

GJB2 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

GJB2 Antibody - Protein Information

Name GJB2

Function

Structural component of gap junctions (PubMed:[16849369](http://www.uniprot.org/citations/16849369)), PubMed:[17551008](http://www.uniprot.org/citations/17551008)), PubMed:[19340074](http://www.uniprot.org/citations/19340074)), PubMed:[19384972](http://www.uniprot.org/citations/19384972)), PubMed:[21094651](http://www.uniprot.org/citations/21094651)), PubMed:[26753910](http://www.uniprot.org/citations/26753910)). Gap junctions are dodecameric channels that connect the cytoplasm of adjoining cells. They are formed by the docking of two hexameric hemichannels, one from each cell membrane (PubMed:[17551008](http://www.uniprot.org/citations/17551008)), PubMed:[19340074](http://www.uniprot.org/citations/19340074)), PubMed:[21094651](http://www.uniprot.org/citations/21094651)), PubMed:[26753910](http://www.uniprot.org/citations/26753910)). Small

molecules and ions diffuse from one cell to a neighboring cell via the central pore (PubMed:16849369, PubMed:19384972, PubMed:21094651).

Cellular Location

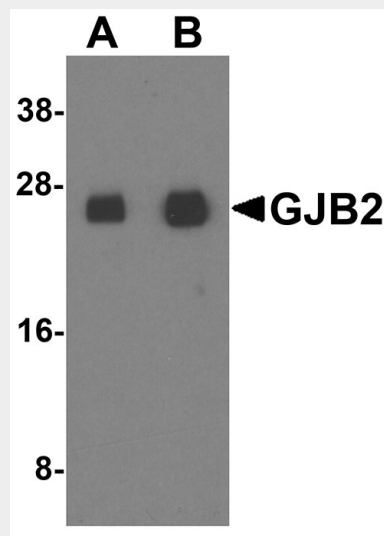
Cell membrane; Multi-pass membrane protein. Cell junction, gap junction. Note=Colocalizes with GJB4 at gap junction plaques in the cochlea. {ECO:0000250|UniProtKB:Q00977}

GJB2 Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GJB2 Antibody - Images



Western blot analysis of GJB2 in human colon tissue lysate with GJB2 antibody at (A) 1 and (B) 2 μ g/ml.

GJB2 Antibody - Background

The Gap junction beta-2 protein (GJB2), also known as Connexin 26, is member of the gap junction protein family which form structures that were shown to consist of cell-to-cell channels that facilitate the transfer of ions and small molecules between cells (1). Mutations in the GJB2 gene are thought to be responsible for as much as 35-45% of congenital sensorineural hearing loss in some populations (2). Other mutations in this gene have also been linked to a wide array of skin diseases (3).

GJB2 Antibody - References

Zhou JZ and Jiang JX. Gap junctions and hemichannel-independent actions of connexins on cell and tissue functions - An update. *FEBS Lett.* 2014; 588:1186-92.

Petit C, Levilliers J, and Hardelin JP. Molecular genetics of hearing loss. *Annu. Rev. Genet.* 2001; 35:589-646.

Gerido DA and White TW. Connexin disorders of the ear, skin, and lens. *Biochim. Biophys. Acta.* 2004; 1662:159-70.