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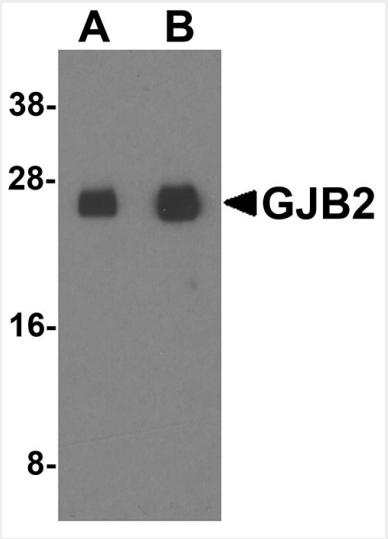
GJB2 Antibody
Catalog # ASC11872

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** **Observed: 26 kDa KDa**
Application Notes	**GJB2 antibody can be used for detection of GJB2 by Western blot at 1 - 2 µg/ml.**



Western blot analysis of GJB2 in human colon tissue lysate with GJB2 antibody at (A) 1 and (B) 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℃ for three months and -20℃, 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:17551008, PubMed:<a href="http://www.uniprot.org/ci

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

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tations/21094651"
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tations/16849369"
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PubMed:<a href="http://www.uniprot.org/ci
tations/19384972"
target="_blank">19384972). 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:<a href="http://w
ww.uniprot.org/citations/17551008"
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tations/21094651"
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PubMed:<a href="http://www.uniprot.org/ci
tations/26753910"
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molecules and ions diffuse from one cell to
a neighboring cell via the central pore
(PubMed:<a href="http://www.uniprot.org/c
itations/21094651"
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tations/16849369"
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PubMed:<a href="http://www.uniprot.org/ci
tations/19384972"
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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

of the ear, skin, and lens. Biochim. Biophys. Acta. 2004; 1662:159-70.

- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture