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Connexin 31 Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP1553a

Specification

Connexin 31 Antibody (N-term) Blocking peptide - Product Information

Primary Accession O75712

Connexin 31 Antibody (N-term) Blocking peptide - Additional Information

Gene ID 2707

Other Names
Gap junction beta-3 protein, Connexin-31, Cx31, GJB3, CX31

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP1553a was selected from the N-term region of human GJB3. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Connexin 31 Antibody (N-term) Blocking peptide - Protein Information

Name GJB3

Synonyms CX31

Function
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.

Cellular Location
Cell membrane; Multi-pass membrane protein. Cell junction, gap junction

Connexin 31 Antibody (N-term) Blocking peptide - Protocols

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

- Blocking Peptides

Connexin 31 Antibody (N-term) Blocking peptide - Images

Connexin 31 Antibody (N-term) Blocking peptide - Background

Gap junctions are conduits that allow the direct cell-to-cell passage of small cytoplasmic molecules, including ions, metabolic intermediates, and second messengers, and thereby mediate intercellular metabolic and electrical communication. Gap junction channels consist of connexin protein subunits, which are encoded by a multigene family. GJBs (gap-junction proteins or connexins) play crucial functional roles associated with these channels. Defects in GJB3 have been linked to erythrokeratodermia variabilis (EKV) is an autosomal dominant genodermatosis characterized by transient figurate red patches or hyperkeratosis. Mutations in GJB2 have also been associated with genetically derived hearing impairments, including autosomal recessive nonsyndromic deafness.

Connexin 31 Antibody (N-term) Blocking peptide - References

Plantard, L., et al., Hum. Mol. Genet. 12(24):3287-3294 (2003).Rouan, F., et al., Exp. Dermatol. 12(2):191-197 (2003).Mhatre, A.N., et al., Clin. Genet. 63(2):154-159 (2003).Diestel, S., et al., Biochem. Biophys. Res. Commun. 296(3):721-728 (2002).Di, W.L., et al., Hum. Mol. Genet. 11(17):2005-2014 (2002).