

**Connexin 31 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP1553a****Specification**

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**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](/product/products/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**

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 erythrokeratoderma 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).