

**Connexin 50 Antibody (N-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP1548a****Specification**

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**Connexin 50 Antibody (N-term) Blocking peptide - Product Information**Primary Accession [P48165](#)**Connexin 50 Antibody (N-term) Blocking peptide - Additional Information****Gene ID** 2703**Other Names**

Gap junction alpha-8 protein, Connexin-50, Cx50, Lens fiber protein MP70, GJA8

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP1548a](/product/products/AP1548a) was selected from the N-term region of human GJA8. 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 50 Antibody (N-term) Blocking peptide - Protein Information****Name** GJA8**Function**

Structural component of eye lens gap junctions (PubMed: [18006672](http://www.uniprot.org/citations/18006672), PubMed: [19756179](http://www.uniprot.org/citations/19756179)). 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 (By similarity). Small molecules and ions diffuse from one cell to a neighboring cell via the central pore (PubMed: [18006672](http://www.uniprot.org/citations/18006672), PubMed: [19756179](http://www.uniprot.org/citations/19756179)).

**Cellular Location**

Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:P55917}. Cell junction, gap junction

**Tissue Location**

Eye lens..

**Connexin 50 Antibody (N-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**Connexin 50 Antibody (N-term) Blocking peptide - Images****Connexin 50 Antibody (N-term) Blocking peptide - Background**

GJA8 is a an integral membrane protein that belongs to the connexin family, alpha-type (group II) subfamily. 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. A connexon is composed of a hexamer of connexins. This particular connexin only forms junctional channels. GJA8 is expressed in the eye lens, and defects in GJA8 are the cause of zonular pulverulent cataract type 1 (CZP1), a form of autosomal dominant congenital cataract.

**Connexin 50 Antibody (N-term) Blocking peptide - References**

Shiels, A., et al., Am. J. Hum. Genet. 62(3):526-532 (1998).Church, R.L., et al., Curr. Eye Res. 14(10):979-981 (1995).Church, R.L., et al., Curr. Eye Res. 14(3):215-221 (1995).