

**GJC2 Antibody (N-term)**  
**Mouse Monoclonal Antibody (Mab)**  
**Catalog # AM1998b****Specification**

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**GJC2 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">Q5T442</a>
Other Accession	<a href="#">NP_065168.2</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgM
Calculated MW	47002
Antigen Region	32-61

**GJC2 Antibody (N-term) - Additional Information****Gene ID** 57165**Other Names**

Gap junction gamma-2 protein, Connexin-466, Cx466, Connexin-47, Cx47, Gap junction alpha-12 protein, GJC2, GJA12

**Target/Specificity**

This GJC2 antibody is generated from mice immunized with a KLH conjugated synthetic peptide between 32-61 amino acids from the N-terminal region of human GJC2.

**Dilution**

WB~~1:500~1000

E~~Use at an assay dependent concentration.

**Format**

Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Euglobin precipitation followed by dialysis against PBS.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

GJC2 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**GJC2 Antibody (N-term) - Protein Information****Name** GJC2

## Synonyms GJA12

**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. May play a role in myelination in central and peripheral nervous systems.

## Cellular Location

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

## Tissue Location

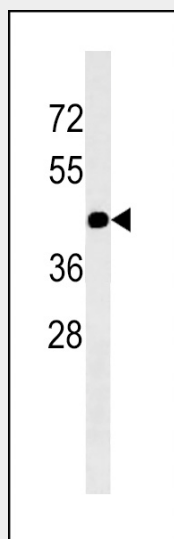
Expressed in central nervous system, in sciatic nerve and sural nerve. Also detected in skeletal muscles

## GJC2 Antibody (N-term) - 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](#)

## GJC2 Antibody (N-term) - Images



GJC2 Antibody (N-term) (Cat. #AM1998b ) western blot analysis in A549 cell line lysates (35µg/lane). This demonstrates the GJC2 antibody detected the GJC2 protein (arrow).

## GJC2 Antibody (N-term) - Background

GJC2 is a gap junction protein. Gap junction proteins are members of a large family of homologous connexins and comprise 4 transmembrane, 2 extracellular, and 3 cytoplasmic domains. This gene plays a key role in central myelination and is

involved in peripheral myelination in humans. Defects in this gene are the cause of autosomal recessive Pelizaeus-Merzbacher-like disease-1.

#### **GJC2 Antibody (N-term) - References**

Ferrell, R.E., et al. Am. J. Hum. Genet. 86(6):943-948(2010)

Wang, J., et al. Brain Dev. 32(3):236-243(2010)

Ishikawa, T., et al. Rinsho Shinkeigaku 50(1):7-11(2010)

Ruf, N., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (2), 226-232 (2009) :

Orthmann-Murphy, J.L., et al. Brain 132 (PT 2), 426-438 (2009) :