

Anti-GJA3 Picoband Antibody
Catalog # ABO12282**Specification**

Anti-GJA3 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9Y6H8
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Gap junction alpha-3 protein(GJA3) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-GJA3 Picoband Antibody - Additional Information

Gene ID 2700

Other Names

Gap junction alpha-3 protein, Connexin-46, Cx46, GJA3

Calculated MW

47410 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

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

Protein Name

Gap junction alpha-3 protein

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na₂HPO₄, 0.05mg NaN₃.

Immunogen

A synthetic peptide corresponding to a sequence at the N-terminus of human GJA3 (89-118aa TLIYLGHVLIHVRMEEKKKEREEEEQLKRE), different from the related mouse and rat sequences by four amino acids.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-GJA3 Picoband Antibody - Protein Information

Name GJA3

Function

Structural component of lens fiber gap junctions (PubMed: [30044662](http://www.uniprot.org/citations/30044662)). Gap junctions are dodecameric channels that connect the cytoplasm of adjoining cells (By similarity). They are formed by the docking of two hexameric hemichannels, one from each cell membrane. Small molecules and ions diffuse from one cell to a neighboring cell via the central pore (PubMed: [30044662](http://www.uniprot.org/citations/30044662)).

Cellular Location

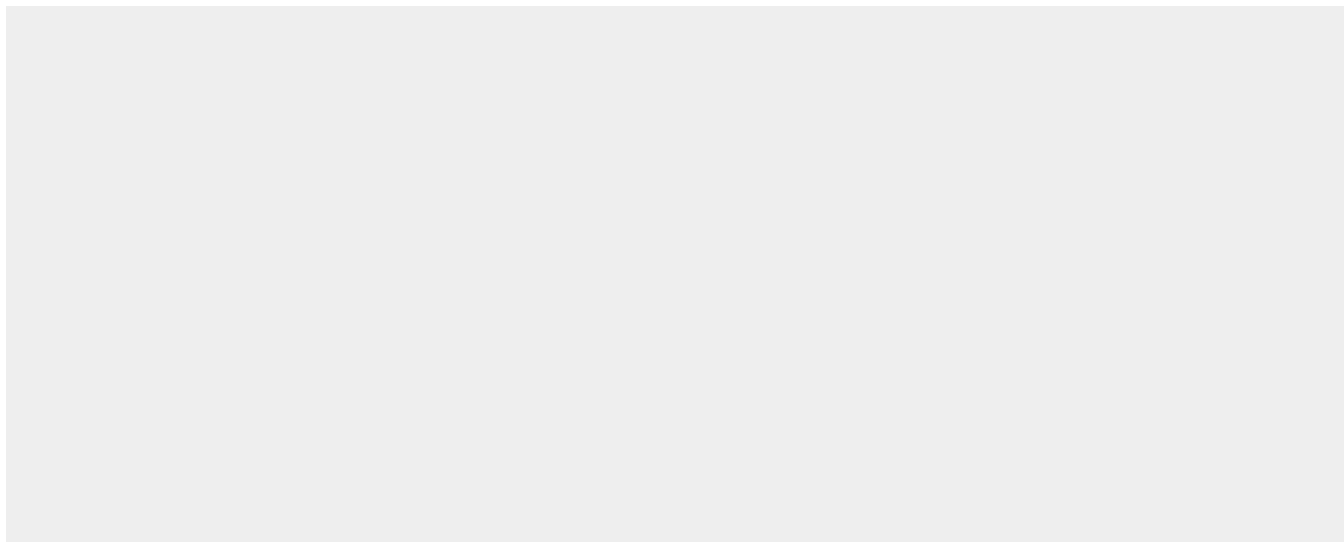
Cell membrane; Multi-pass membrane protein {ECO:0000250|UniProtKB:Q9TU17}. Cell junction, gap junction

Anti-GJA3 Picoband Antibody - 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](#)

Anti-GJA3 Picoband Antibody - Images





Anti- GJA3 Picoband antibody, ABO12282, Western blotting All lanes: Anti GJA3 (ABO12282) at 0.5ug/ml
Lane 1: Rat Cardiac Muscle Tissue Lysate at 50ug
Lane 2: Rat Kidney Tissue Lysate at 50ug
Lane 3: Human Placenta Tissue Lysate at 50ug
Lane 4: NIH3T3 Whole Cell Lysate at 40ug
Predicted bind size: 47KD
Observed bind size: 55KD

Anti-GJA3 Picoband Antibody - Background

Gap junction alpha-3 protein, also known as Connexin-46, is a protein that in humans is encoded by the GJA3 gene. This gene is mapped to 13q12.11. The protein encoded by this gene is a connexin and is a component of lens fiber gap junctions. 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. Defects in this gene are a cause of zonular pulverulent cataract type 3 (CZP3).