

Anti-Connexin 40/GJA5 Antibody
Catalog # ABO10693**Specification**

Anti-Connexin 40/GJA5 Antibody - Product Information

Application	WB, IHC
Primary Accession	P36382
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Gap junction alpha-5 protein(GJA5) detection. Tested with WB, IHC-P in Human;Mouse;Rat.

Reconstitution

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

Anti-Connexin 40/GJA5 Antibody - Additional Information

Gene ID 2702

Other Names

Gap junction alpha-5 protein, Connexin-40, Cx40, GJA5

Calculated MW

40380 MW KDa

Application Details

Immunohistochemistry(Paraffin-embedded Section), 0.5-1 µg/ml, Human, Rat, Mouse, By Heat
Western blot, 0.1-0.5 µg/ml, Mouse, Human, Rat

Subcellular Localization

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

Protein Name

Gap junction alpha-5 protein

Contents

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

Immunogen

A synthetic peptide corresponding to a sequence at the C-terminus of human Connexin 40/GJA5(341-358aa KRRLSKASSKARSDDLVS), identical to the related mouse and rat sequences.

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-Connexin 40/GJA5 Antibody - Protein Information

Name GJA5

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

Anti-Connexin 40/GJA5 Antibody - Protocols

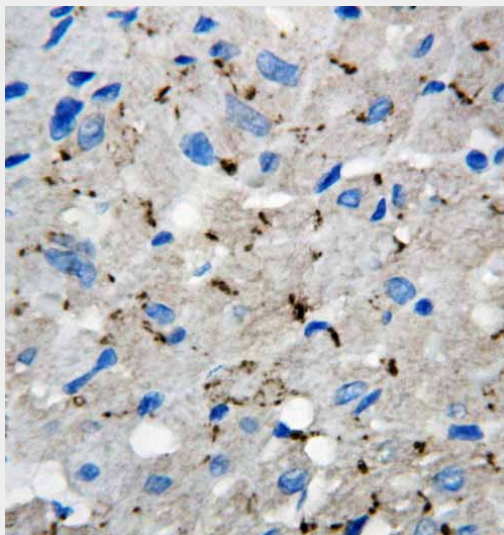
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-Connexin 40/GJA5 Antibody - Images



Anti-Connexin 40/GJA5 antibody, ABO10693, Western blotting
Lane 1: Mouse Heart Tissue Lysate
Lane 2: Mouse Heart Tissue Lysate



Anti-Connexin 40/GJA5 antibody, ABO10693, IHC(P)IHC(P): Rat Cardiac Muscle Tissue

Anti-Connexin 40/GJA5 Antibody - Background

Connexin proteins oligomerize to form intercellular channels, called gap junctions, through which ions and small molecules move between adjacent cells. Connexin 40(Gap junction alpha-5 protein) is a protein that in humans is encoded by the GJA5 gene. This gene is a member of the connexin gene family. The encoded protein is a component of gap junctions, which are composed of arrays of intercellular channels that provide a route for the diffusion of low molecular weight materials from cell to cell. Mutations in this gene may be associated with atrial fibrillation. Alternatively spliced transcript variants encoding the same isoform have been described.