



[Go to Product page](#)

Datasheet for ABIN5536173

## anti-Connexin 43/GJA1 antibody (N-Term)

### 3 Images

#### Overview

Quantity:	400 µL
Target:	Connexin 43/GJA1 (GJA1)
Binding Specificity:	AA 107-138, N-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This Connexin 43/GJA1 antibody is un-conjugated
Application:	Western Blotting (WB)

#### Product Details

Immunogen:	This Connexin 43 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 107-138 amino acids from the N-terminal region of human Connexin 43.
Isotype:	Ig Fraction
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

#### Target Details

Target:	Connexin 43/GJA1 (GJA1)
Alternative Name:	Connexin 43 ( <a href="#">GJA1 Products</a> )
Background:	Gap junction protein, alpha 1 is a member of the connexin gene family and a component of gap junctions. Gap junctions are composed of arrays of intercellular channels and provide a route

## Target Details

---

for the diffusion of materials of low molecular weight from cell to cell. Connexin 43 is the major protein of gap junctions in the heart, and gap junctions are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. Connexin 43 is targeted by several protein kinases that regulate myocardial cell-cell coupling. A related intron-less connexin 43 pseudogene, GJA1P, has been mapped to chromosome 5.

Molecular Weight: 43 kDa

Gene ID: 2697

UniProt: [P17302](#)

Pathways: [MAPK Signaling](#), [Myometrial Relaxation and Contraction](#), [Cell-Cell Junction Organization](#)

## Application Details

---

Application Notes: For WB starting dilution is: 1:1000

For IHC-P starting dilution is: 1:50~100

Restrictions: For Research Use only

## Handling

---

Format: Liquid

Concentration: 2 mg/mL

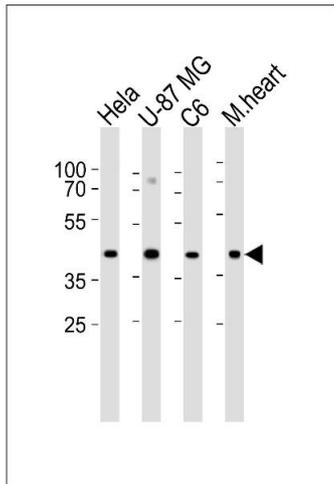
Buffer: Supplied in PBS with 0.09 % (W/V) sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

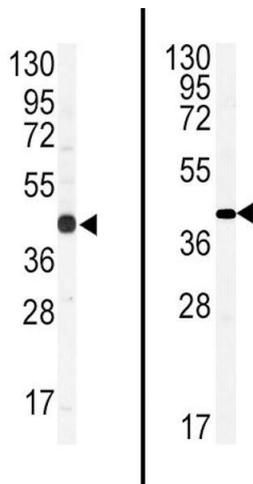
Storage: 4 °C,-20 °C

Storage Comment: Store at 4°C for three months and -20°C, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.



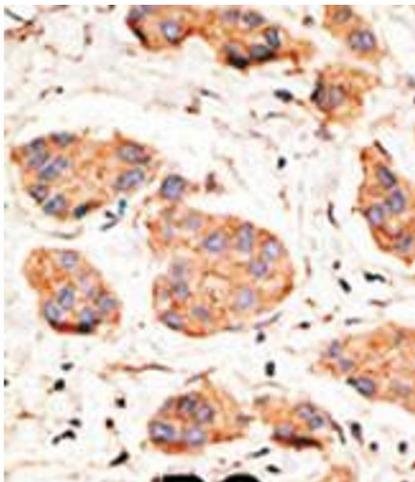
### Western Blotting

**Image 1.** Western blot analysis of lysates from HeLa, U-87 MG, C6 cell line and mouse heart tissue lysate (from left to right), using GJA1 Antibody (N121) at 1:1000 at each lane.



### Western Blotting

**Image 2.** (LEFT) Western blot analysis of anti-GJA1 Antibody (N-term) in CEM cell line lysates (35ug/lane). GJA1 (arrow) was detected using the purified Pab. (RIGHT) Western blot analysis of hGJA1-N121.Connexin in mouse brain tissue lysates (35ug/lane). GJA1 (arrow) was detected using the purified Pab.



### Immunohistochemistry

**Image 3.** Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. BC = breast carcinoma; HC = hepatocarcinoma.