

## Rabbit anti-Human Connexin 43 Monoclonal Antibody | anti-GJA1 antibody

Connexin 43 Rabbit mAb

|                               |                       |                            |                                            |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|
| CATALOG #<br><b>AAA282999</b> | HOST<br><b>Rabbit</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>ELISA, Western Blot</b> |
|-------------------------------|-----------------------|----------------------------|--------------------------------------------|

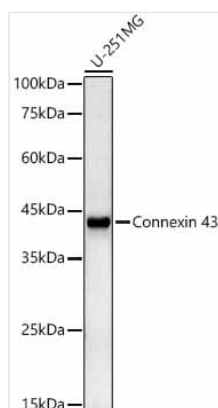
### PRODUCT SYNONYMS

Connexin 43; Monoclonal Antibody; Connexin 43 Rabbit mAb; HSS; CMDR; CX43; EKVP; GJAL; ODDD; AVSD3; EKVP3; HLHS1; PPKCA; anti-GJA1 antibody

### PRODUCT SPECIFICATIONS

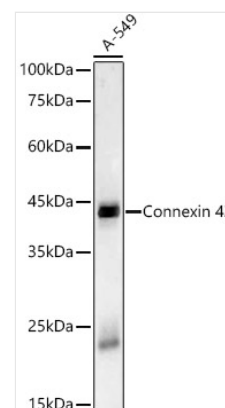
|                                                |                                                                                                                |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                         |
| Reactivity                                     | Human                                                                                                          |
| Clonality                                      | Monoclonal                                                                                                     |
| Isotype                                        | IgG                                                                                                            |
| Purity/Purification                            | Affinity purification                                                                                          |
| Form/Format                                    | PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.                                                     |
| Sequence                                       | NYNKQASEQN WANYSAEQNR MGQAGSTISN SHAQPFDFPD DNQNSKKLAA GHQLQPLAIV DQRPSSRASS<br>RASSRPRPDD LEI                 |
| Applicable Applications for anti-GJA1 antibody | ELISA, WB (Western Blot)                                                                                       |
| Cross Reactivity                               | Human, Mouse, Rat                                                                                              |
| Immunogen                                      | A synthetic peptide corresponding to a sequence within amino acids 300-382 of human Connexin 43 (NP_000156.1). |
| Preparation and Storage                        | Store at -20 degree C. Avoid freeze/thaw cycles.                                                               |

### IMAGES



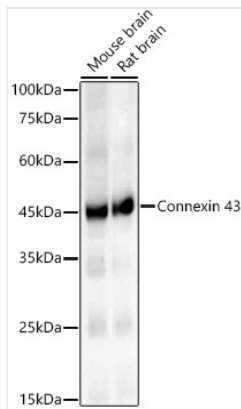
#### WB (Western Blot)

Western blot analysis of lysates from U-251 MG cells, using Connexin 43 Rabbit mAb (AAA282999) at 1:2000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 180s.



#### WB (Western Blot)

Western blot analysis of lysates from A549 cells, using Connexin 43 Rabbit mAb (AAA282999) at 1:2000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 60s.



#### WB (Western Blot)

Western blot analysis of various lysates, using Connexin 43 Rabbit mAb (AAA282999) at 1:2000 dilution. Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution. Lysates/proteins: 25ug per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection: ECL Basic Kit (RM00020). Exposure time: 10s.

### ADDITIONAL INFORMATION

|                                                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Related Product Information for anti-GJA1 antibody</b> | 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. The encoded protein is the major protein of gap junctions in the heart that are thought to have a crucial role in the synchronized contraction of the heart and in embryonic development. A related intronless pseudogene has been mapped to chromosome 5. Mutations in this gene have been associated with oculodentodigital dysplasia, autosomal recessive craniometaphyseal dysplasia and heart malformations. |
| <b>Product Categories/Family for anti-GJA1 antibody</b>   | Protein phosphorylation; Signal Transduction; Cell Biology Developmental Biology; Cell Adhesion; Cytoskeleton; Immunology Inflammation; Cardiovascular; Heart; Cardiac arrhythmias; Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |

### NCBI AND UNIPROT INFORMATION

|                                   |                                            |
|-----------------------------------|--------------------------------------------|
| <b>NCBI GI #</b>                  | 4504001                                    |
| <b>NCBI GeneID</b>                | 2697                                       |
| <b>NCBI Accession #</b>           | NP_000156.1                                |
| <b>NCBI GenBank Nucleotide #</b>  | NM_000165.3                                |
| <b>UniProt Accession #</b>        | P17302; Q6FHU1; Q9Y5I8; B2R5U9             |
| <b>Molecular Weight</b>           | Calculated MW: 43kDa<br>Observed MW: 43kDa |
| <b>UniProt Protein Name</b>       | Gap junction alpha-1 protein               |
| <b>UniProt Gene Name</b>          | <b>GJA1</b>                                |
| <b>UniProt Synonym Gene Names</b> | GJAL; Cx43                                 |
| <b>UniProt Entry Name</b>         | CXA1_HUMAN                                 |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)  
Online datasheet: <https://www.aaabiotech.com/monoclonal/connexin-43-antibody-western-blot-elisa/282999>