

## Rabbit Connexin 45 Polyclonal Antibody | anti-CX45 antibody

Connexin 45 Antibody

| CATALOG # | HOST   | REACTIVITY        | APPLICATIONS                                                                       |
|-----------|--------|-------------------|------------------------------------------------------------------------------------|
| AAA321798 | Rabbit | Human, Mouse, Rat | ELISA, Immunocytochemistry, Immunofluorescence, Immunohistochemistry, Western Blot |

### PRODUCT SYNONYMS

Connexin 45; Polyclonal Antibody; Connexin 45 Antibody; Connexin-45; Connexin45; CX 31.9; CX 45; CX31.9; CXG1\_HUMAN; DKFZp686P0738; Gap junction alpha 7 protein; Gap junction alpha-7 protein; Gap junction gamma 1 protein; Gap junction gamma-1 protein; Gap junction protein alpha 7 45kDa; Gap junction protein alpha 7; Gap junction protein; gamma 1; 45kDa; GJA 7; GJA7; GJC1; GJD3; anti-CX45 antibody

### PRODUCT SPECIFICATIONS

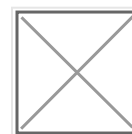
|                                                |                                                                                                          |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------|
| Host                                           | Rabbit                                                                                                   |
| Reactivity                                     | Human, Mouse, Rat                                                                                        |
| Clonality                                      | Polyclonal                                                                                               |
| Isotype                                        | IgG                                                                                                      |
| Specificity                                    | Connexin 45 antibody detects endogenous levels of total Connexin 45                                      |
| Purity/Purification                            | The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.            |
| Form/Format                                    | Liquid<br>Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.            |
| Concentration                                  | 1mg/ml (varies by lot)                                                                                   |
| Sequence Length                                | 396                                                                                                      |
| Applicable Applications for anti-CX45 antibody | ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), IHC (Immunohistochemistry), WB (Western Blot) |
| Immunogen                                      | A synthesized peptide derived from human Connexin 45                                                     |
| Subcellular Location                           | Cell Membrane. Cell Junction > Gap Junction.                                                             |
| Predicted Cross Reactivity                     | <b>Pig, Bovine, Horse, Rabbit, Dog</b>                                                                   |
| Similarity                                     | Pig (100%), Bovine (89%), Horse (89%), Rabbit (89%), Dog (100%)                                          |
| Conjugation                                    | Unconjugated                                                                                             |
| Preparation and Storage                        | Store at -20 degree C. Stable for 12 months from date of receipt.                                        |

### IMAGES



#### WB (Western Blot)

Western blot analysis of Connexin 45 expression in rat heart. The lane on the left is treated with the antigen-specific peptide.



#### IHC (Immunohistochemistry)

AAA321798 at 1/100 staining human liver carcinoma sections by IHC-P. The tissue was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The tissue was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



#### IF (Immunofluorescence)

AAA321798 staining Hela by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) Ab, diluted at 1/600, was used as the secondary antibody.

### ADDITIONAL INFORMATION

|                                                    |                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CX45 antibody | Description: 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.<br>Subunit Structure: A connexon is composed of a hexamer of connexins. Interacts with CNST (By similarity).<br>Similarity: Belongs to the connexin family. Gamma-type subfamily. |
| References                                         | Zhao J, Wu M, Chen S, Ji Z, Zheng X; Journal: Neurourol Urodyn. TGF-beta1 and connexin-43 expression in neurogenic bladder from rats with sacral spinal cord injury.                                                                                                                                                                                                                   |

### NCBI AND UNIPROT INFORMATION

|                                  |                                       |
|----------------------------------|---------------------------------------|
| NCBI GI #                        | 122939172                             |
| NCBI GeneID                      | 10052                                 |
| NCBI Accession #                 | NP_001073852.1                        |
| NCBI GenBank Nucleotide #        | NM_001080383.1                        |
| UniProt Accession #              | P36383; Q4VAY0; B3KW68                |
| Molecular Weight                 | Observed: 45 kDa<br>Predicted: 46 kDa |
| NCBI Official Full Name          | gap junction gamma-1 protein          |
| NCBI Official Synonym Full Names | gap junction protein gamma 1          |
| NCBI Official Symbol             | GJC1                                  |
| NCBI Official Synonym Symbols    | CX45; GJA7                            |
| NCBI Protein Information         | gap junction gamma-1 protein          |
| UniProt Protein Name             | Gap junction gamma-1 protein          |
| UniProt Gene Name                | GJC1                                  |
| UniProt Synonym Gene Names       | GJA7; Cx45                            |

**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://stage.aaabiotech.com/polyclonal/connexin-45-antibody-immunocytochemistry-immunofluorescence-immunohistochemistry-western-blot-elisa/321798>