

GJA1 / CX43 / Connexin 43 Polyclonal Antibody | anti-GJA1 antibody

Goat Polyclonal (IgG) to Rat GJA1 / CX43 / Connexin 43

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA52522	GJA1/CX43/Connexin 43 antibody was produced in a Goat	Dog, Human, Monkey, Mouse, Rat	Immunohistochemistry

PRODUCT SYNONYMS

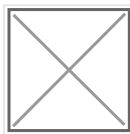
GJA1 / CX43 / Connexin 43; Polyclonal Antibody; Goat Polyclonal (IgG) to Rat GJA1 / CX43 / Connexin 43; GJA1 | Connexin-43 | DFNB38 | Connexin 43 | Gap junction alpha-1 protein | GJAL | HSS | Gap junction protein alpha 1 | ODDD | ODD | AVSD3 | CX43 | HLHS1 | ODOD | SDTY3; anti-GJA1 antibody

PRODUCT SPECIFICATIONS

Host	GJA1/CX43/Connexin 43 antibody was produced in a Goat
Reactivity	Dog, Human, Monkey, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	Detects endogenous levels of total connexin 43.
Purity/Purification	Immunoaffinity Purified
Form/Format	PBS, 0.05% Sodium Azide, 20% Glycerol
Concentration	4 mg/ml (varies by lot)
Sequence Length	382
Applicable Applications for anti-GJA1 antibody	IHC (Immunohistochemistry)
Antigen Type	Recombinant protein
Epitope	C-terminus
Target Species	CJA1/CX43/Connexin 43
Immunogen Species	GJA1/CX43/Connexin 43 antibody was raised against Rat.
Immunogen	GJA1/CX43/Connexin 43 antibody was raised against purified recombinant peptide derived from within residues 230 aa to the C-terminus of rat CX43 produced in E.coli.
Family/Subfamily	Ion Channel / Conexin
Note	During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. We recommend briefly centrifuging the vial to dislodge any liquid in the container's cap prior to opening.
Warning	This reagent may contain sodium azide. The chemical, physical, and toxicological properties of this material have not been thoroughly investigated. Standard Laboratory Practices should be followed. Avoid skin and eye contact, inhalation, and ingestion. Sodium azide forms hydrazoic acid under acidic conditions and may react with lead or copper plumbing to form highly explosive metal azides. On disposal, flush with large volumes of water to prevent accumulation.
Disclaimer	Due to the highly specific nature of antibodies and antigens, we cannot predict or be held responsible with respect to this antibody will behave in your systems. Researchers using this antibody should conduct optimization studies to achieve the most optimal result possible for their intended application.

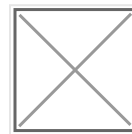
Recommended Immunohistochemistry Protocol	The following protocol is a recommendation only, and AAA Biotech makes no guarantee of the results: Tissue Preparation: Formalin fixation and embedding in paraffin wax. Tissue Sectioning: Make 4-um sections and place on pre-cleaned and charged microscope slides. Heat in a tissue-dryingoven for 45 minutes at 60 degree C. Deparaffinization: Wash dry slides in 3 changes of xylene - 5 minutes each @ RT Rehydration: Wash slides in 3 changes of 100% alcohol - 3 minutes each @ RT Wash slides in 2 changes of 95% alcohol - 3 minutes each @ RT Wash slides in 1 change of 80% alcohol - 3 minutes @ RT Rinse slides in gentle running distilled water - 5 minutes @ RT Antigen retrieval: Steam slides in 0.01 M sodium citrate buffer, pH 6.0 at 99-100 degree C - 20 minutes Remove from heat and let stand at room temperature in buffer - 20 minutes Rinse in 1X TBS with Tween (TBST) -1 minute @ RT Immunostaining: (Do not allow tissues to dry at any time during the staining procedure) Apply a universal protein block - 20 minutes @ RT Drain protein block from slides, apply diluted primary antibody - 45 minutes @ RT Rinse slides in 1 X TBST - 1 minute @ RT Apply a biotinylated secondary antibody appropriate for the primary antibody - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase streptavidin - 30 minutes @ RT Rinse slides in 1X TBST -1 minute @ RT Apply alkaline phosphatase chromogen substrate - 30 minutes @ RT Wash slides in distilled water - 1 minute @ RT Dehydrate: (This method should only be used if the chromogen substrate is alcohol insoluble (e.g. Vector Red, DAB) Wash slides in 2 changes of 80% alcohol - 1 minute each @ RT Wash slides in 2 changes of 95% alcohol - 1 minute each @ RT Wash slides in 3 changes of 100% alcohol - 1 minute each @ RT Wash slides in 3 changes of xylene - 1 minute each @ RT Apply coverslip
Preparation and Storage	Store at 4 degree C short term. Aliquot and store at -20 degree C long term. Avoid freeze-thaw cycles.

IMAGES



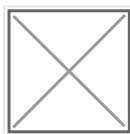
WB (Western Blot)

Western blot. Endogenous Cx43 detected with GJA1 / CX43 / Connexin 43 antibody at 1:1000 dilution. Lysate at 100 ug per lane and rabbit polyclonal to goat IgG (HRP) at 1:10000 dilution.



IF (Immunofluorescence)

Immunofluorescence. Immunostaining of primary RPE cells with CX43 antibody at 1:100 dilution.



IHC (Immunohistochemistry)

Anti-GJA1 / CX43 / Connexin 43 antibody IHC staining of human uterus, endometrium. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 10 ug/ml.

ADDITIONAL INFORMATION

Product Categories/Family for anti-GJA1 antibody	Family: Ion Channel; Subfamily: Connexin
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504001
NCBI GeneID	2697
NCBI Accession #	NP_000156.1
NCBI GenBank Nucleotide #	NM_000165.4
UniProt Accession #	P17302; Q6FHU1; Q9Y5I8; B2R5U9
NCBI Official Full Name	gap junction alpha-1 protein
NCBI Official Synonym Full Names	gap junction protein, alpha 1, 43kDa
NCBI Official Symbol	GJA1
NCBI Official Synonym Symbols	HSS; CMDR; CX43; GJAL; ODDD; AVSD3; HLHS1
NCBI Protein Information	gap junction alpha-1 protein; connexin 43; connexin-43; gap junction 43 kDa heart protein
UniProt Protein Name	Gap junction alpha-1 protein
UniProt Gene Name	GJA1
UniProt Synonym Gene Names	GJAL; Cx43
UniProt Entry Name	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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/gja1-cx43-connexin-43-antibody-immunohistochemistry-elisa/52522>