

Rabbit anti-Human Connexin-32/GJB1 Polyclonal Antibody | anti-GJB1 antibody

Anti-Connexin-32/GJB1 Antibody Picoband

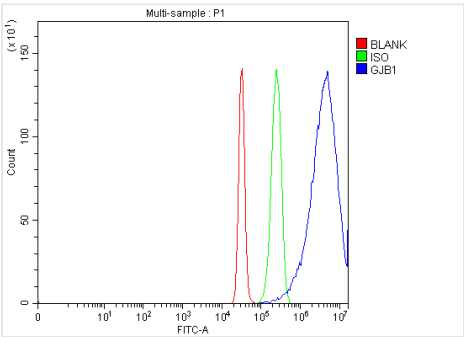
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127031	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Western Blot

PRODUCT SYNONYMS

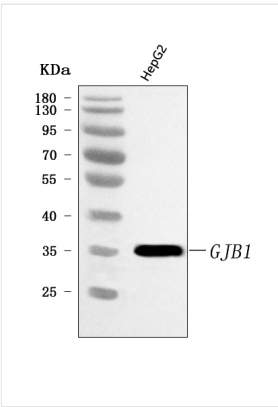
Connexin-32/GJB1; Polyclonal Antibody; Anti-Connexin-32/GJB1 Antibody Picoband; gap junction protein; beta 1; 32kDa; Gap junction beta-1 protein; Connexin-32; Cx32; GAP junction 28 kDa liver protein; GJB1; CX32; anti-GJB1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-GJB1 antibody	ELISA, FCM/FACS (Flow Cytometry), WB (Western Blot)
Immunogen	E coli-derived human Connexin-32/GJB1 recombinant protein (Position: A92-A147).
Subcellular Localization	Cell membrane, Multi-pass membrane protein, Cell junction, gap junction
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein 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.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



FCM/FACS (Flow Cytometry)
Figure 2. Flow Cytometry analysis of HepG2 cells using anti-Connexin-32/GJB1 antibody .Overlay histogram showing HepG2 cells stained with A01050 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-Connexin-32/GJB1 Antibody for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



WB (Western Blot)
Figure 1. Western blot analysis of Connexin-32/GJB1 using anti-Connexin-32/GJB1 antibody .Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HepG2 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Connexin-32/GJB1 antigen affinity purified polyclonal antibody at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Connexin-32/GJB1 at approximately 35 kDa. The expected band size for Connexin-32/GJB1 is at 32 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-GJB1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-GJB1 antibody	Primary Antibodies; Neuroscience; Neurotransmission; Receptors/Channels
References	1. Corcos IA, Lafreniere RG, Begy CR, Loch-Caruso R, Willard HF, Glover TW (Jul 1992). "Refined localization of human connexin32 gene locus, GJB1, to Xq13.1". Genomics 13 (2): 479-80. 2. Hoek KS, Schlegel NC, Eichhoff OM, et al. (2008). "Novel MITF targets identified using a two-step DNA microarray strategy". Pigment Cell Melanoma Res. 21 (6): 665-76.

NCBI AND UNIPROT INFORMATION

NCBI GI #	148233402
NCBI GeneID	2705
NCBI Accession #	NP_001091111.1
NCBI GenBank Nucleotide #	NM_001097642.2
UniProt Accession #	P08034; Q5U0S4; B2R8R2; D3DVV2
Molecular Weight	32,025 Da
NCBI Official Full Name	gap junction beta-1 protein
NCBI Official Synonym Full Names	gap junction protein, beta 1, 32kDa
NCBI Official Symbol	GJB1
NCBI Official Synonym Symbols	CMTX; CX32; CMTX1
NCBI Protein Information	gap junction beta-1 protein; connexin 32; connexin-32; GAP junction 28 kDa liver protein

UniProt Protein Name	Gap junction beta-1 protein
UniProt Gene Name	GJB1
UniProt Synonym Gene Names	CX32; Cx32
UniProt Entry Name	CXB1_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/connexin-32-gjb1-antibody-flow-cytometry-western-blot-elisa/127031>