

## Product datasheet for **TA328775**

### Gjb2 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	IF, WB
Recommended Dilution:	WB: 1:200-1:2000; FC: 1:50-1:600
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)HEKKRKFMKGEIK, corresponding to amino acid residues 100-112 of rat Connexin-26. Intracellular, cytoplasmic loop.
Formulation:	Lyophilized. Concentration before lyophilization ~0.8mg/ml (lot dependent, please refer to CoA along with shipment for actual concentration). Buffer before lyophilization: Phosphate buffered saline (PBS), pH 7.4, 1% BSA, 0.05% NaN <sub>3</sub> .
Reconstitution Method:	Add 50 ul double distilled water (DDW) to the lyophilized powder.
Purification:	Affinity purified on immobilized antigen.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Gene Name:	gap junction protein, beta 2
Database Link:	<a href="#">NP_001004099</a> <a href="#">Entrez Gene 2706 Human</a> <a href="#">Entrez Gene 14619 Mouse</a> <a href="#">Entrez Gene 394266 Rat</a> <a href="#">P21994</a>



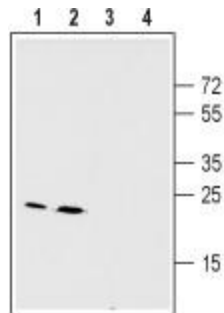
[View online »](#)

**Background:**

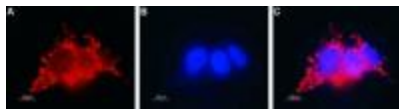
Connexins (Cx) are integral membrane proteins consisting of four transmembrane domains, two extracellular loops, one intracellular loop and intracellular N- and C-termini. The 21 members belonging to this family form homomeric or heteromeric hexamers generally termed connexons or hemi-channels. In turn, these hemi-channels further assemble in a head-to-head manner, thus forming gap junction channels. Connexins are ubiquitously expressed and their activity is regulated at the expression level and by post-translational modifications. Gap junctions are usually found in clusters and enable intercellular communication by allowing the passage of small molecules between cells. They play important roles in different biological processes. These include differentiation, cell cycle synchronization, cellular development, neuronal activity and the immune response. Due to their important roles, mutations in connexins are linked with a number of diseases such as neurodegenerative disorders, skin diseases and developmental abnormalities. Mutations in the gene encoding for Connexin-26 protein are associated with deafness.

**Synonyms:**

Connexin-26; CX26; DFNA3; DFNA3A; DFNB1; DFNB1A; HID; KID; NSRD1; OTTHUMP00000018094; PPK

**Product images:**


Western blot analysis of mouse (lanes 1 and 3) and rat (lanes 2 and 4) liver membranes: 1, 2. Anti-Connexin-26 antibody, (1:200). 3, 4. Anti-Connexin-26 antibody, preincubated with the control peptide antigen.



Expression of Connexin-26 human HepG2 liver hepatocellular carcinoma cells. Immunocytochemical staining of fixed and permeabilized HepG2 liver hepatocellular carcinoma cells. A. Cells were stained with Anti-Connexin-26 antibody, (1:400), followed by goat anti-rabbit-AlexaFluor-594 secondary antibody (red). B. Cell nuclei were visualized using Hoechst 33342 (blue). C. Merge of the two images.