

## Product datasheet for **TA328773**

### Gja5 Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 1:200-1:2000
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Peptide (C)GHRFPQGYHSDKR, corresponding to amino acid residues 328-340 of rat Connexin-40. Intracellular, C-terminus.
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, alpha 5
Database Link:	<a href="#">NP_062153</a> <a href="#">Entrez Gene 14613 Mouse</a> <a href="#">Entrez Gene 50563 Rat</a> <a href="#">P28234</a>



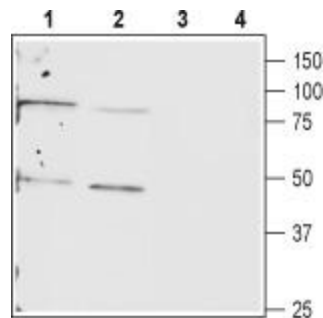
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**Background:**

Connexins are transmembrane proteins, which oligomerize into hexameres adjusting in hemi-channels (connexons). The docking of connexons between two neighboring cells results in the formation of intercellular channels, which are permeable to ions and small molecules. These channels, which are also known as gap junctions, are characterized by distinct electrophysiological properties. Various physiological and pathological conditions regulate the opening and closing of the channels. Several genetic disorders have been identified in which specific connexin genes are mutated. Connexin 40 (Cx40) gene consists two exons, a small untranslated exon, exon 1, and an uninterrupted coding region located in an exon 2. In human and mouse species, Cx40 is expressed in various tissues and cells, such as choriocarcinoma cell lines, tonsil lymphocytes and cardiomyocytes. The expression of the Cx40 gene in cardiomyocytes suggested that in the adult heart, Cx40 involved in the propagation of the electrical impulses from the atria to the ventricles. It was supported by the finding that Cx40 knockout mice developed cardiac conduction defects which matched the pattern of expression of the gene.

**Synonyms:**

Connexin-40; CX40; MGC11185; OTTHUMP00000015905

**Product images:**

Western blot analysis of rat (lanes 1 and 3) and mouse (lanes 2 and 4) heart lysates: 1-2. Anti-Connexin-40 antibody, (1:200). 3-4. Anti-Connexin-40 antibody, preincubated with the control peptide antigen.