

**Connexin 40 Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP1545A**

**Specification**

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**Connexin 40 Antibody (N-term) - Product Information**

Application	WB, IHC-P-Leica,E
Primary Accession	<a href="#">P36382</a>
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Antigen Region	102-134

**Connexin 40 Antibody (N-term) - Additional Information**

**Gene ID** 2702

**Other Names**

Gap junction alpha-5 protein, Connexin-40, Cx40, GJA5

**Target/Specificity**

This Connexin 40 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 102-134 amino acids from the N-terminal region of human Connexin 40.

**Dilution**

WB~~1:4000  
IHC-P-Leica~~1:500

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Connexin 40 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**Connexin 40 Antibody (N-term) - Protein Information**

**Name** GJA5

**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.

#### Cellular Location

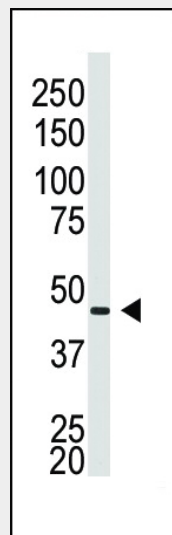
Cell membrane; Multi-pass membrane protein. Cell junction, gap junction

#### Connexin 40 Antibody (N-term) - Protocols

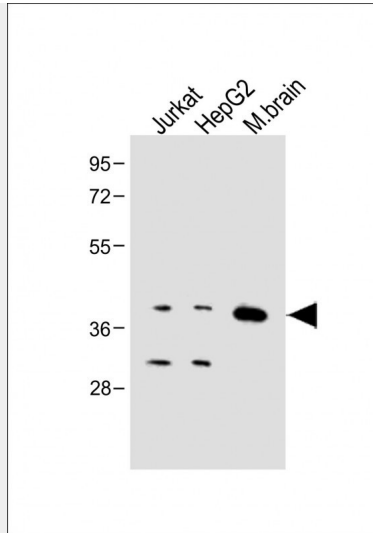
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

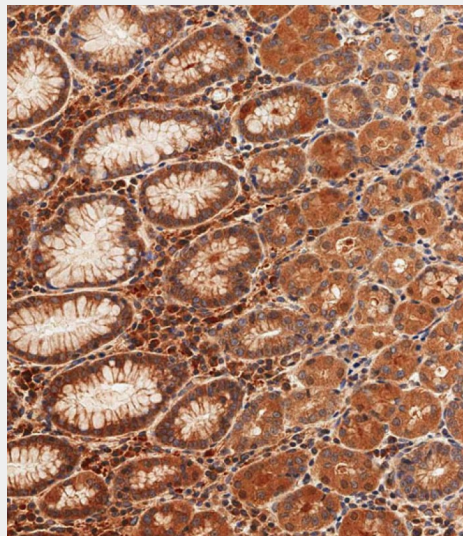
#### Connexin 40 Antibody (N-term) - Images



Western blot analysis of anti-GJA5 N-term Pab (Cat. #AP1545a) in Placenta lysate. GJA5 (Arrow) was detected using purified Pab. Secondary HRP-anti-rabbit was used for signal visualization with chemiluminescence.



All lanes : Anti-Connexin 40 Antibody (N-term) at 1:4000 dilution Lane 1: Jurkat whole cell lysate  
Lane 2: HepG2 whole cell lysate Lane 3: Mouse brain lysate Lysates/proteins at 20 µg per lane.  
Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 40 kDa Blocking/Dilution buffer: 5% NFDm/TBST.



Immunohistochemical analysis of paraffin-embedded human stomach tissue using AP1545a performed on the Leica® BOND RXm. Samples were incubated with primary antibody(1/500) for 1 hours at room temperature. A undiluted biotinylated CRF Anti-Polyvalent HRP Polymer antibody was used as the secondary antibody.

### Connexin 40 Antibody (N-term) - Background

Gap junctions were first characterized by electron microscopy as regionally specialized structures on plasma membranes of contacting adherent cells. These structures were shown to consist of cell-to-cell closely packed transmembrane channels. Proteins, called connexins, purified from fractions of enriched gap junctions from different tissues differ. Connexins are designated by their molecular mass. Another system of nomenclature divides gap junction proteins into 2 categories, alpha and beta, according to sequence similarities at the nucleotide and amino acid levels. For example, CX43 is designated alpha-1 gap junction protein, whereas CX32 and CX26 are called beta-1 and beta-2 gap junction proteins, respectively. This nomenclature emphasizes that CX32 and CX26 are more homologous to each other than either of them is to CX43. Connexins have four transmembrane, three intracellular, and two extracellular regions. Different tissues express

different connexins, though tissue specificities overlap, and a given tissue or cell can express several different connexins. Developmental regulation of at least some of the connexin genes has been found. Embryo implantation is regulated in part by temporally changing patterns of expression of connexins in the embryo and the maternal decidua.

#### **Connexin 40 Antibody (N-term) - References**

Dupays, L., et al., *Gene* 305(1):79-90 (2003).

Simon, A.M., et al., *Dev. Biol.* 251(2):206-220 (2002).

Cronier, L., et al., *Mol. Hum. Reprod.* 8(11):1005-1013 (2002).

Oviedo-Orta, E., et al., *Immunology* 99(4):578-590 (2000).

Gelb, B.D., et al., *Genomics* 39(3):409-411 (1997).