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Connexin 40 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1545A

Product Information

Application	WB, IHC-P-Leica, E
Primary Accession	P36382
Reactivity	Human, Rat, Mouse
Predicted	Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	40380
Antigen Region	102-134

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~~1:1000 IHC-P-Leica~~1:500 E~~Use at an assay dependent concentration.
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.

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

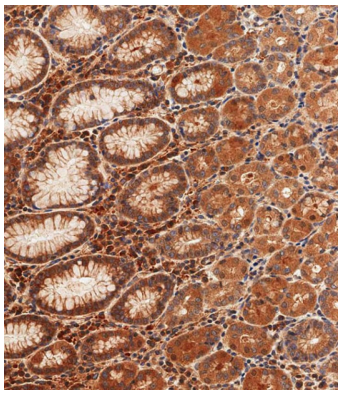
Background

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.

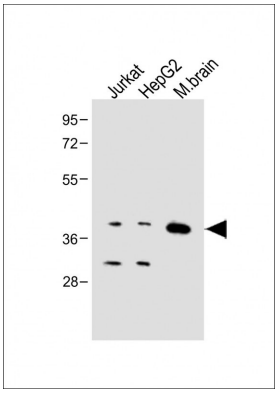
References

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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).

Images



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.



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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.