

Rabbit anti-Human Connexin 40 Polyclonal Antibody | anti-GJA5 antibody

Connexin 40 Antibody (N-term)

CATALOG # AAA286115	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, ELISA, Western Blot
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PRODUCT SYNONYMS

Connexin 40; Polyclonal Antibody; Connexin 40 Antibody (N-term); Gap junction alpha-5 protein; Connexin-40; Cx40; GJA5; anti-GJA5 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
Concentration	Vial Concentration: 1.98 (varies by lot)
Sequence Positions	102-134
Sequence Length	358
Applicable Applications for anti-GJA5 antibody	IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Formalin-fixed and paraffin-embedded human lung carcinoma tissue reacted with GJA5 antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-GJA5 antibody	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.
Product Categories/Family for anti-GJA5 antibody	Cardiovascular; Signal Transduction
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).

NCBI AND UNIPROT INFORMATION

NCBI GI #	6631083
NCBI GeneID	2702
NCBI Accession #	NP_005257.2; NP_859054.1
NCBI GenBank Nucleotide #	NM_005266.6
UniProt Accession #	P36382; Q5T3B6; Q5U0N6
Molecular Weight	40380
NCBI Official Full Name	gap junction alpha-5 protein
NCBI Official Synonym Full Names	gap junction protein, alpha 5, 40kDa
NCBI Official Symbol	GJA5
NCBI Official Synonym Symbols	CX40; ATFB11
NCBI Protein Information	gap junction alpha-5 protein
UniProt Protein Name	Gap junction alpha-5 protein
UniProt Gene Name	GJA5
UniProt Synonym Gene Names	Cx40
UniProt Entry Name	CXA5_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.