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GJA7 Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1547a

Specification

GJA7 Antibody (N-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P36383
Other Accession	A4GG66, A4GVD1, P28229, Q6R4A8
Reactivity	**Human**
Predicted	**Hamster, Mouse, Pig, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**45470**
Antigen Region	**89-120**

GJA7 Antibody (N-term) - Additional Information

Gene ID 10052

Other Names
Gap junction gamma-1 protein, Connexin-45, Cx45, Gap junction alpha-7 protein, GJC1, GJA7

Target/Specificity
This GJA7 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 89-120 amino acids from the N-terminal region of human GJA7.

Dilution
WB~~1:1000
IHC-P~~1:50~100
E~~Use at an assay dependent concentration.

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.

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
GJA7 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

GJA7 Antibody (N-term) - Protein Information

Name GJC1

Synonyms GJA7

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.

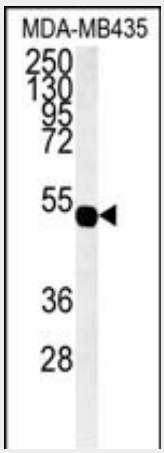
Cellular Location
Cell membrane; Multi-pass membrane protein. Cell junction, gap junction

GJA7 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 Cytomety
- Cell Culture

GJA7 Antibody (N-term) - Images



Western blot analysis of hGJA7-H104.Connexin (Cat. #AP1547a) in MDA-MB435 cell line lysates (35ug/lane).GJA7 (arrow) was detected using the purified Pab.

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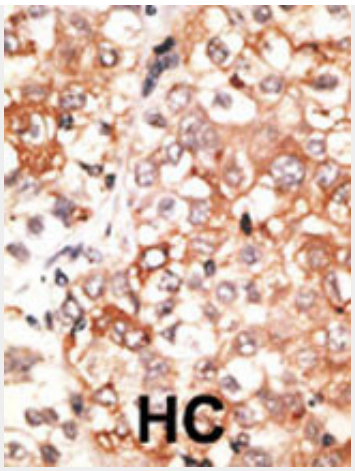

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

GJA7 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.

GJA7 Antibody (N-term) - References

Xiang, Q., et al., Ai Zheng 21(6):593-596 (2002).
Kanter, H.L., et al., J. Mol. Cell. Cardiol. 26(7):861-868 (1994).
Kaba, R.A., et al., Cell Commun. Adhes. 8 (4-6), 339-343 (2001).

GJA7 Antibody (N-term) - Citations

- Connexins and steroidogenesis in mouse Leydig cells.