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Product datasheet for AP20645PU-M

GJB1 Rabbit Polyclonal Antibody

Product data:

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Product Type:	Primary Antibodies
Applications:	IHC, WB
Recommended Dilution:	**Western blot:** 1/500-1/1000. **Immunohistochemistry on Paraffin Sections:** 1/50-1/200.
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	Synthetic peptide corresponding to amino acids 81-130 of Human Connexin 32.
Specificity:	This antibody detects endogenous levels of Connexin-32 protein. (region surrounding Leu115)
Formulation:	Phosphate buffered saline (PBS), pH~7.2 State: Aff - Purified State: Liquid purified Ig fraction (> 95% pure by SDS-PAGE) Preservative: 0.02% Sodium Azide, 50% Glycerol
Concentration:	1.0 mg/ml
Purification:	Affinity Chromatography using epitope-specific immunogen
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	~32 kDa
Gene Name:	gap junction protein beta 1
Database Link:	Entrez Gene 14618 Mouse Entrez Gene 29584 Rat Entrez Gene 2705 Human P08034

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Background:

Gap junctions are aggregations of intercellular channels that directly connect the cytoplasm of adjacent cells. Gap junctions coordinate cellular and organ function in tissues and are involved in metabolic cooperation between cells, synchronization of cellular physiological activities, growth control and developmental regulation. The gap junction channels allow intercellular exchange of ions, nucleotides and small molecules between adjacent cells. Unlike other membrane channels, intercellular channels span two plasma membranes and require the contribution of hemichannels, called connexons, from both participating cells. These channels are permeate to molecules as large as 1 kD, and they have been detected in virtually every cell type in mammals, except mature skeletal muscle, spermatozoa and erythrocytes. Two connexons interact in the extracellular space to form the complete intercellular channel. Each connexon is composed of six similar or identical proteins, which are termed connexins. Connexins (Cx) are a multi-gene family of highly related proteins ranging between molecular weights of 26 and 70 kD. At least a dozen distinct connexin genes have been identified and many are expressed in a tissue-specific manner. Two distinct lineages have been identified in mammals. One termed class I or beta group to which Cx26, Cx30, Cx31, Cx31.1 and Cx32 belong, and the other termed class II or alpha group, represented by Cx33, Cx37, Cx40, Cx43 and Cx46.
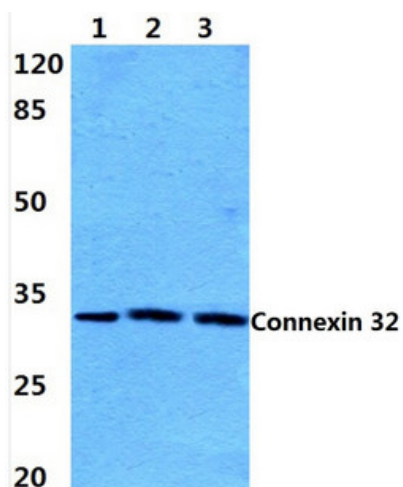
Synonyms: Gap junction beta-1 protein, Connexin-32

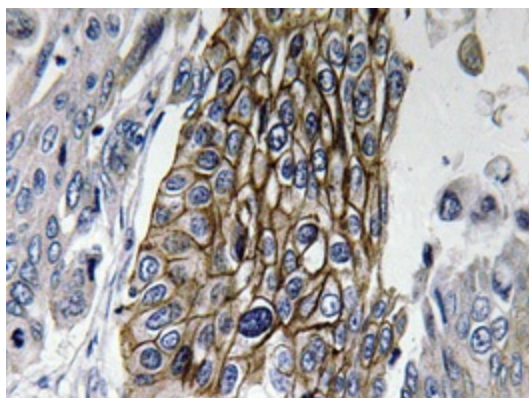**Protein Families:**   Druggable Genome, Ion Channels: Other, Transmembrane
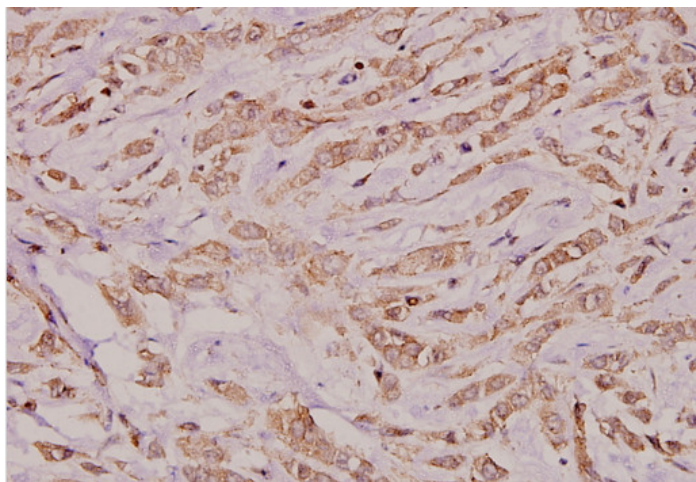
Product images:
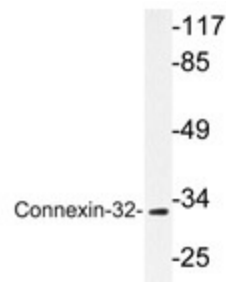
Western blot analysis of Connexin 32 (L115) Antibody at 1/500 dilution: Lane 1: Hela cell lysate. Lane 2: Raw264.7 cell lysate. Lane 3: PC12 cell lysate.

Western blot analysis of Connexin-32 antibody in extracts from LOVO cells.

Immunohistochemistry analysis of Connexin-32 antibody in paraffin-embedded human breast carcinoma tissue at 1/100 dilution.

Immunohistochemistry analysis of Connexin-32 antibody in paraffin-embedded human lung carcinoma tissue.