

Rabbit anti-Human Cx43 Polyclonal Antibody | anti-Cx43 antibody

Phospho-Cx43(Ser262) Antibody

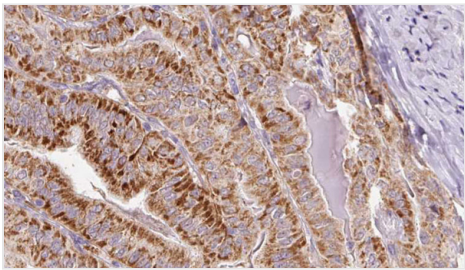
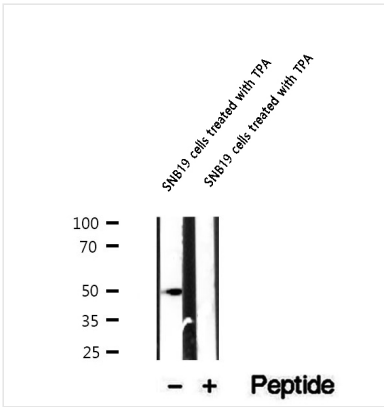
CATALOG # AAA321291	HOST Rabbit	REACTIVITY Human	APPLICATIONS Immunohistochemistry, Western Blot
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PRODUCT SYNONYMS

Cx43; Polyclonal Antibody; Phospho-Cx43(Ser262) Antibody; Connexin 43; Connexin-43; Cx 43; CXA1_HUMAN; DFNB38; Gap junction 43 kDa heart protein; Gap junction alpha-1 protein; Gap junction protein alpha 1 43kDa (connexin 43); Gap junction protein alpha 1 43kDa; Gap junction protein alpha like; GJA 1; Gja1; GJAL; ODD; ODDD; ODOD; SDTY3; anti-Cx43 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	phospho-Cx43(Ser262) antibody detects endogenous levels of Cx43.
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho-and non-phospho-peptide affinity columns.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	382
Applicable Applications for anti-Cx43 antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human Cx43 around the phosphorylation site of Ser262.
Subcellular Location	Cell Membrane. Cell Junction > Gap Junction.
Tissue Specificity	Expressed in the heart and fetal cochlea.
Predicted Cross Reactivity	Pig, Bovine, Sheep, Rabbit
Similarity	Pig (83%), Bovine (83%), Sheep (83%), Rabbit (83%)
Conjugation	Unconjugated
Epitope	Phospho Ser262
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



IHC (Immunohistochemistry)
AAA321291 at 1/100 staining Human thyroid cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22 degree C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.

WB (Western Blot)
Western blot analysis of extracts of SNB19 cells treated with TPA, using phospho-Cx43(Ser262) Antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-Cx43 antibody	Function: Gap junction protein that acts as a regulator of bladder capacity. A 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. May play a critical role in the physiology of hearing by participating in the recycling of potassium to the cochlear endolymph. Negative regulator of bladder functional capacity: acts by enhancing intercellular electrical and chemical transmission, thus sensitizing bladder muscles to cholinergic neural stimuli and causing them to contract (By similarity). May play a role in cell growth inhibition through the regulation of NOV expression and localization. Plays an essential role in gap junction communication in the ventricles (By similarity). Subunit Structure: A connexon is composed of a hexamer of connexins. Interacts (via C-terminus) with TJP1 (By similarity). Interacts (via C-terminus) with SRC (via SH3 domain) (By similarity). Interacts (not ubiquitinated) with UBQLN4 (via UBA domain) (By similarity). Interacts with SGSM3 and CNST (By similarity). Interacts with RIC1/CIP150. Interacts with CSNK1D. Interacts with NOV (PubMed:15181016, PubMed:15213231). Interacts with TMEM65 (By similarity). Post-translational Modifications: Phosphorylated at Ser-368 by PRKCG; phosphorylation induces disassembly of gap junction plaques and inhibition of gap junction activity (By similarity). Phosphorylation at Ser-325, Ser-328 and Ser-330 by CK1 modulates gap junction assembly. Phosphorylation at Ser-368 by PRKCD triggers its internalization into small vesicles leading to proteasome-mediated degradation (By similarity). Sumoylated with SUMO1, SUMO2 and SUMO3, which may regulate the level of functional Cx43 gap junctions at the plasma membrane. May be desumoylated by SENP1 or SENP2. S-nitrosylation at Cys-271 is enriched at the muscle endothelial gap junction in arteries, it augments channel permeability and may regulate of smooth muscle cell to endothelial cell communication. Similarity: Belongs to the connexin family. Alpha-type (group II) subfamily.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504001
NCBI GeneID	2697
NCBI Accession #	NP_000156.1
NCBI GenBank Nucleotide #	NM_000165.5
UniProt Accession #	P17302; Q6FHU1; Q9Y5I8; B2R5U9
Molecular Weight	Observed: 42; 44; 46 kDa Predicted: 44 kDa
NCBI Official Full Name	gap junction alpha-1 protein
NCBI Official Synonym Full Names	gap junction protein alpha 1
NCBI Official Symbol	GJA1

NCBI Official Synonym Symbols	HSS; CMDR; CX43; EKVP; GJAL; ODDD; AVSD3; EKVP3; HLHS1; PPKCA
NCBI Protein Information	gap junction alpha-1 protein
UniProt Protein Name	Gap junction alpha-1 protein
UniProt Gene Name	GJA1
UniProt Synonym Gene Names	GJAL; Cx43

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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cx43-antibody-immunohistochemistry-western-blot-elisa/321291>