Connexin 46 (cx28.9) Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	Connexin 46 (cx28.9), Polyclonal Antibody
Full Product Name	Connexin 46 (Cx46, Gap Junction Alpha 3 Protein, CXA-3)
Product Gene Name	anti-cx28.9 antibody
Product Synonym Names	Anti -Connexin 46 (Cx46, Gap Junction Alpha 3 Protein, CXA-3)
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Rat
Form/Format	Supplied as a liquid in PBS, pH 7.4, 0.1% BSA.
Purity/Purification	Affinity Purified Purified by affinity chromatography.
Specificity	Recognizes rat Cx46. No significant homology is seen with other Connexins. Species sequence homology: mouse, 91%; human, <50%.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Chromosome Location	Chromosome: 20; NC_007131.5 (40776485..40782685, complement). Location: chromosome: 20
Immunogen	A synthetic peptide corresponding to 11aa within the C-terminal cytoplasmic domain of rat Cx46. Conjugated to KLH.
Product Categories/Family for anti-cx28.9 antibody	Antibodies; Abs to Connexin; Junction Proteins
Applications Tested/Suitable for anti-cx28.9 antibody	ELISA (EL/EIA), Western Blot (WB), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-cx28.9 antibody	Suitable for use in ELISA, Immunohistochemistry, Immunofluorescence and Western Blot. Dilution: Western Blot: 1-10ug/ml; Using ECL. The protein detected may migrate slightly faster than the 46kD. ELISA: 1:100,000. Using 50-100ng C7858-07B Control Peptide/well. Immunohistochemistry: 2-10ug/ml. Adherent cells can be fixed in 50% methanol-50% acetone or 1% paraformaldhyde. Optimal dilutions to be determined by the researcher
Related Product Information for anti-cx28.9 antibody	Gap junctions are composed of transmembrane channels that link the cytoplasm of neighboring cells. They differ from other membrane channels since they exist between two cells. Gap junctions are relatively non-specific. They allow passive diffusion of small molecules up to 1000D. The junctions exist in almost all vertebrate and non-vertebrates cells. It is believed that gap junctions play an important for intercellular communications and affect growth and differentiation of cells. Gap junctional channel is composed of a hemichannel (connexon) in the cell membrane of one cell joined in mirror symmetry with a connexon in the opposing cell. Each connexon is an oligomer of six protein subunits that define the axial aqueous pore. Molecular cloning studies have identified a family of at least 12 highly related Connexins that are designated according to MW, Cx26-50. Hydropathy analyses of Cx sequences predicts 4 transmembrane (TM), 2 extracellular (EC) and 3 cytoplasmic (CP) domains. The EC, TM and N-terminal CP domains are well conserved among family members. The Central and C-terminal domains are highly variable in both sequence and size. The N- and C-termini are predicted to be cytoplasmic.

Other Notes	Small volumes of anti-cx28.9 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for cx28.9 purchase	MBS610231 is an antibody targeting cx28.9. Also known as Connexin 46 (Cx46, Gap Junction Alpha 3 Protein, CXA-3). Reactive in Rat. Host: Rabbit.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for cx28.9. It may not necessarily be applicable to this product.

NCBI GI #	55925500
NCBI GeneID	492358
NCBI Accession #	NP_001007325.1
GenBank Nucleotide #	NM_001007324.1
NCBI Official Full Name	connexin 28.9
NCBI Official Synonym Full Names	connexin 28.9
NCBI Official Symbol	cx28.9
NCBI Official Synonym Symbols	gjac; cx20c; fd51f05; zgc:92056; wu:fd51f05; si:dkey-261a18.3
Protein Family	Gap junction gamma-2 protein
NCBI Protein Information	connexin 28.9; gap junction protein, alpha c
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