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PRODUCT DATASHEET

Anti-Connexin-45 (Cx45) Antibody

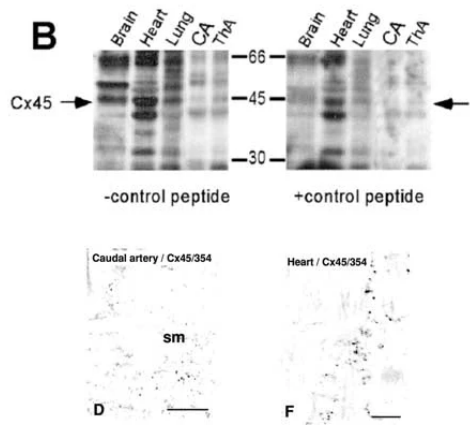
Product Details

Available Variants	100 µL (SKU:S-061-100)
Conjugate	Unconjugated
Isotype	Mixed
Host Species	Sheep
Format	Whole serum
Physical State	Lyophilized
Applications	WB
Dilution Ranges	IHC: 1:100-1:250
Species Reactivity	Human
Immunogen	A synthetic peptide (QAYSHQN NPHGPRE) as part of human Connexin-45 protein (aa: 354-367) conjugated to diphtheria toxoid has been used as the immunogen.
Specificity	Western blotting of cell membranes of COS cells transiently transfected with cDNA encoding Connexin-45 shows a singular band of molecular weight 47 kDa which is abolished by preincubation with the immunising peptide. No such band is detected in Western blots of membranes from non-transfected cells or cells transfected with cDNA encoding Connexin-37 or Connexin-40. This antiserum reacts to human Connexin-45.
Molecular Weight	45 kDa (See application details.)
Storage	Spin vial briefly before opening. Reconstitute in 100 µL sterile-filtered, ultrapure water. Centrifuge to remove any insoluble material. After reconstitution keep aliquots at -20°C for a higher stability, and at 2-8°C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
UniProt ID	P36383 UniProt Summary: Structural component of the gap junction, a specialized

intercellular structure consisting of a cluster of closely packed pairs of transmembrane channels, the connexons, that allow passage of small molecules and electrical signals between neighboring cells. Forms homotypic and heterotypic channels gated by transjunctional voltage. Involved in intercellular innate immune signaling. Mediates translocation of 2',3'-cGAMP and 2',5'-oligoadenylates (2-5A) second messengers from virus-infected cells to macrophages and uninfected neighboring cells to propagate and amplify the antiviral immune response.

Country of Origin	United States
Shipping	25°C (ambient)
Expiration	12 months after date of receipt (unopened vial).
Usage Statement	For research use only.
NCBI Gene ID	10052

Product Images



B: Western Blotting of tissue extracts from rat brain, heart, lung, liver, caudal artery (CA) and thoracic aorta (ThA) using S-061-100. Arrows show the position of the expected Cx band. The left panels represent incubation with Cx antibody whereas right panels represent pre-incubation of the antibody with immunogenic peptide.
D and F: Immunohistochemical analysis of Cx45 expression in caudal artery (D) and heart tissue (F). Sparse Cx45 expression could be detected in CA and heart (adapted from Rummery, NM et al 2002, Supplementary Figure VII. and Figure 2).

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