

Sheep antibody to Connexin-37 (266-281): whole serum

Catalogue No.:	S-062-100
Description:	THIS PRODUCT IS OBSOLETE, AND HAS NOT BEEN REPLACED BY ANOTHER CLOSE MATCH. FUNCTION: One gap junction consists of a cluster of closely packed pairs of transmembrane channels, the connexons, through which materials of low molecular weight diffuse from one cell to a neighboring cell. Connexin-37 may also mediate hyperexcitability following nerve injury. SUBUNIT: A connexon is composed of a hexamer of connexins. SUBCELLULAR LOCATION: Membrane; multi-pass membrane protein. TISSUE SPECIFICITY: Highly expressed in lung. SIMILARITY: Belongs to the connexin family. Alpha-type (group II) subfamily.
Batch No.:	See product label
Unit size:	100 uL
Antigen:	A synthetic peptide (aa: 266-281) as part of rat Connexin-37 protein conjugated to diphtheria toxoid has been used as the immunogen.
Sequence:	YLPMGEGPSSPPCPTY
Antibody Type:	Polyclonal
Other Names:	Gap junction alpha-4 protein; Cx37; Gja4; Cxn-37
Accession:	Q03190 CXA4_RAT
Produced in:	Sheep
Purity:	Whole serum
Applications:	Immunohistochemistry: Antibody detects Cx37 in rat tissues and arterial endothelial cells. This antibody was used at 1:100 - 1:250 in the original publication (see Rummery, NM et al 2002 for more details), but Biosensis recommends optimal dilutions/concentrations should be determined by the end user. In the original work the specificity of the antibody was shown by incubation either without primary antibody or with primary antibody that had previously been pre-incubated for 1 hour at room temperature with 10-fold excess by weight of the peptide against which the antibody was raised. This antibody is not recommended for Western Blotting.
Species Against:	This antiserum recognizes Connexin-37 in rat, other species not yet tested
Form:	Lyophilised
Reconstitution:	Reconstitute in 100 uL of sterile water. Centrifuge to remove any insoluble material.
Storage:	Store lyophilized antibody at 2-8C. After reconstitution keep aliquots at -20C for a higher stability, and at 2-8C with an appropriate antibacterial agent. Glycerol (1:1) may be added for an additional stability. Avoid repetitive freeze/thaw cycles.
Expiry Date:	12 months after purchase
Specific References:	Original Reference Rummery NM, Hickey H, McGurk G, Hill CE. (2002) "Connexin37 is the major connexin expressed in the media of caudal artery." <i>Arterioscler Thromb Vasc Biol.</i> 22(9):1427-32. PMID: 12231561 This antibody is referred to as Cx37/266 in Rummery, NM et al 2002.

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Immunohistochemistry: En face view of Cx37 expression in endothelial cells of rat thoracic aorta with antibody S-062-100. Plaques can be seen outlining the perimeter of endothelial cells (adapted from Rummery, NM et al. 2002, Figure 4)

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