

Connexin 36 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP1549b

Product Information

Application	IHC-P, WB, E
Primary Accession	Q9UKL4
Other Accession	O70610 , O54851 , Q866T7
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB01385
Calculated MW	36093
Antigen Region	291-321

Additional Information

Gene ID	57369
Other Names	Gap junction delta-2 protein, Connexin-36, Cx36, Gap junction alpha-9 protein, GJD2, GJA9
Target/Specificity	This Connexin 36 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 291-321 amino acids from the C-terminal region of human Connexin 36.
Dilution	IHC-P~~1:100~500 WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified monoclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein G column, followed by dialysis against PBS.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Connexin 36 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GJD2
Synonyms	GJA9

Function

One 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.

Cellular Location

Cell membrane; Multi-pass membrane protein. Cell junction, gap junction

Tissue Location

Highly expressed in neurons.

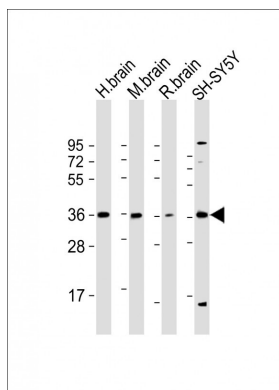
Background

GJA9, also called connexin-36 (CX36), is a member of the connexin gene family that is expressed predominantly in mammalian neurons. Connexins associate in groups of 6 and are organized radially around a central pore to form connexons. Each gap junction intercellular channel is formed by the conjunction of 2 connexons.

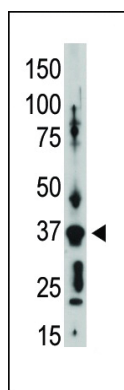
References

de Brouwer, A.P., et al., *Hum. Genet.* 112(2):156-163 (2003).
Belluardo, N., et al., *J. Neurosci. Res.* 57(5):740-752 (1999).

Images

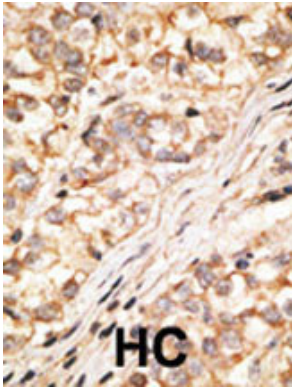


All lanes : Anti-Connexin 36 Antibody (C-term) at 1:2000 dilution Lane 1: human brain lysate Lane 2: mouse brain lysate Lane 3: rat brain lysate Lane 4: SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 36kDa Blocking/Dilution buffer: 5% NFDM/TBST.



The anti-GJA9 C-term Pab (Cat. #AP1549b) is used in Western blot to detect GJA9 in placenta tissue lysate.

Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.



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