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Connexin 37 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1544b

Product Information

Application	WB, IHC-P, E
Primary Accession	P35212
Reactivity	Mouse
Predicted	Rat, Bovine, Canine, Rabbit, Chicken
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB1375
Calculated MW	37414
Antigen Region	303-333

Additional Information

Gene ID	2701
Other Names	Gap junction alpha-4 protein, Connexin-37, Cx37, GJA4
Target/Specificity	This Connexin 37 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 303-333 amino acids from the C-terminal region of human Connexin 37.
Dilution	WB~~1:1000 IHC-P~~1:100~500 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 37 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	GJA4
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	Expressed in multiple organs and tissues, including heart, uterus, ovary, and blood vessel endothelium

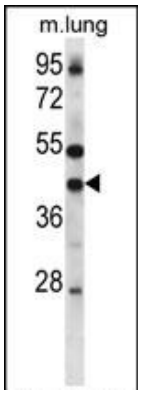
Background

Gap junctions permit direct cell-to-cell passage of small cytoplasmic molecules, including ions, metabolic intermediates, and second messengers, and thereby mediate intercellular communication. Gap junction channels consist of connexin protein subunits encoded by a multigene family. Erythrokeratodermia variabilis (EKV) is an autosomal dominant disorder of keratinization characterized by migratory erythematous lesions and fixed keratotic plaques. Mutations in the GJB3 gene have been reported in some but not all families, although it has been postulated that the absence of connexin 30.3 can be compensated by other connexins.

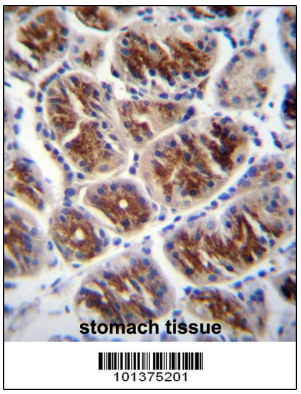
References

Strausberg, R.L., et al., Proc. Natl. Acad. Sci. U.S.A. 99(26):16899-16903 (2002).
Saito, T., et al., Int. J. Cancer 86(1):67-70 (2000).
Boerma, M., et al., J. Intern. Med. 246(2):211-218 (1999).
Krutovskikh, V., et al., Carcinogenesis 17(8):1761-1763 (1996).
Reed, K.E., et al., J. Clin. Invest. 91(3):997-1004 (1993).

Images



GJA4 Antibody (K317).Connexin (Cat. #AP1544b) western blot analysis in mouse lung tissue lysates (35ug/lane).This demonstrates the GJA4 antibody detected the GJA4 protein (arrow).



Connexin 37 Antibody (GJA4) (C-term) (Cat. #AP1544b)immunohistochemistry analysis in formalin fixed and paraffin embedded human stomach tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of Connexin 37 Antibody (GJA4) (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.