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Rabbit Anti-PATJ antibody

SL12142R

Product Name	PATJ
Chinese Name	PSD95 相关紧密连接蛋白 PATJ 抗体
Alias	Channel interacting PDZ domain protein; Cipp; FLJ26982; hINADL; Inactivation no after potential D like protein; INAD like; InaD like Drosophila; INAD like protein; INADL; INADL protein; PALS 1 associated tight junction protein; PALS1 associated tight junction protein; PATJ; PDZ domain protein; PDZ domain protein Drosophila inaD like; Post synaptic density 95 / discs large / zonula occludens 1 domain protein; Protein associated to tight junctions; INADL_HUMAN .
Research Area	Neurobiology Channel protein Cell adhesion molecule
Immunogen Species	Rabbit
Clonality	Polyclonal
React Species	(predicted: Human, Mouse, Rat, Chicken, Dog, Cow, Horse, Rabbit, Sheep,)
Applications	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Theoretical molecular weight	196 kDa
Cellular localization	cytoplasmic The cell membrane
Form	Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PATJ: 1001-1200/1801
Lsotype	IgG
Purification	affinity purified by Protein A
Buffer Solution	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.

Attention

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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Product Detail

The membranes of myelinating Schwann cells are joined by tight, gap and adherens junctions, all of which are found in regions of noncompact myelin: the paranodal loops, incisures of Schmidt-Lanterman and mesaxons. Tight junctions help establish polarity in mammalian epithelia by forming a physical barrier that separates apical and basolateral membranes. Pals-associated tight junction protein (PATJ), the human homolog of Drosophila Discs Lost, is differentially localized in myelinating Schwann cells. PATJ associates with Claudin-1, CRB1 (a transmembrane protein that plays a role in epithelial cell polarity and photoreceptor development), and Pals1 (a Lin-7 associated protein). The PATJ/Pals1/CRB1 complex can form a tripartite tight junction in epithelial cells crucial to their integrity.

Function:
PATJ contains multiple PDZ domains. PDZ domains mediate protein-protein interactions, and proteins with multiple PDZ domains often organize multimeric complexes at the plasma membrane. PATJ localizes to tight junctions and to the apical membrane of epithelial cells. A similar protein in Drosophila is a scaffolding protein which tethers several members of a multimeric signaling complex in photoreceptors.

Subunit:
Interacts with ASIC3, KCNJ10, KCNJ15, GRIN2A, GRIN2B, GRIN2C, GRIN2D, NLGN2, MPP7, HTR2A and SLC6A4 (By similarity). Forms a ternary complex with MPP5, CRB1 and CRB3. Interacts with TJP3/ZO-3 and CLDN1/claudin-1. Component of a complex whose core is composed of ARHGAP17, AMOT, MPP5/PALS1, INADL/PATJ and PARD3/PAR3. Directly interacts with HTR4 (By similarity). Interacts (via PDZ domain 8) with WWC1 (via the ADDV motif).

Subcellular Location:
Membrane. Cell junction; tight junction. Apical cell membrane. Note: Localized in the paranodal region of myelinating Schwann cells. Membrane-associated. Localizes to tight junctions in epithelial cells. Also found at the apical plasma membrane.

Tissue Specificity:
Expressed in bladder, testis, ovary, small intestine, colon, heart, skeletal muscle, pancreas and cerebellum in the brain.

Similarity:
Contains 1 L27 domain.
Contains 10 PDZ (DHR) domains.

SWISS:
Q8NI35

Gene ID:
10207

Database links:

Entrez Gene: 424682 Chicken

Entrez Gene: 536993 Cow

Entrez Gene: 479550 Dog

Entrez Gene: 100070486 Horse

Entrez Gene: 10207 Human

Omim: 603199 Human

SwissProt: Q8NI35 Human