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Rabbit Anti-PATJ/Cy5 Conjugated antibody

SL12142R-Cy5

Product Name	Anti-PATJ/Cy5
Chinese Name	Cy5 标记的 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	ICC/IF=1:50-200,IF=1:100-500 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight	196 kDa
Form	Lyophilized or Liquid
Concentration	1mg/ml
immunogen	KLH conjugated synthetic peptide derived from human PATJ
Lsotype	IgG
Purification	affinity purified by Protein A
Storage Buffer	1M TBS(pH7.4) with 1% BSA, 3% Proclin300 and 50% Glycerol.
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 1M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
Product Detail	**background:** 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.

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

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