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INADL / PATJ Antibody (N-Term)

Peptide-affinity purified goat antibody
Catalog # AF2388a

Specification

INADL / PATJ Antibody (N-Term) - Product Information

Application	**IHC, E**
Primary Accession	Q8NI35
Other Accession	NP_795352.2, 10207
Reactivity	**Human**
Predicted	**Pig, Dog**
Host	**Goat**
Clonality	**Polyclonal**
Concentration	**0.5 mg/ml**
Isotype	**IgG**
Calculated MW	**196368**

INADL / PATJ Antibody (N-Term) - Additional Information

Gene ID 10207

Other Names
InaD-like protein, Inadl protein, hINADL, Pals1-associated tight junction protein, Protein associated to tight junctions, INADL, PATJ

Dilution
IHC~~1:100~500
E~~N/A

Format
0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
INADL / PATJ Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

INADL / PATJ Antibody (N-Term) - Protein Information

Name PATJ {ECO:0000303|PubMed:22006950, ECO:0000312|HGNC:HGNC:28881}

Function
Scaffolding protein that facilitates the localization of proteins to the cell membrane (PubMed:11927608, PubMed:<a

href="http://www.uniprot.org/citations/16678097" target="_blank">16678097, PubMed:22006950). Required for the correct formation of tight junctions and epithelial apico-basal polarity (PubMed:11927608, PubMed:16678097). Acts (via its L27 domain) as an apical connector and elongation factor for multistranded TJP1/ZO1 condensates that form a tight junction belt, thereby required for the formation of the tight junction-mediated cell barrier (By similarity). Positively regulates epithelial cell microtubule elongation and cell migration, possibly via facilitating localization of PRKCI/aPKC and PAR3D/PAR3 at the leading edge of migrating cells (By similarity). Plays a role in the correct reorientation of the microtubule-organizing center during epithelial migration (By similarity). May regulate the surface expression and/or function of ASIC3 in sensory neurons (By similarity). May recruit ARHGEF18 to apical cell-cell boundaries (PubMed:22006950).

Cellular Location
Cell junction, tight junction. Apical cell membrane; Peripheral membrane protein. Cytoplasm, perinuclear region. Note=Localizes to the apical region at the start of epithelial cell polarization then locates to tight junctions as polarization is completed (PubMed:11964389). Localizes to the most apical strand of TJP1/ZO1 condensates during junctional condensation elongation (By similarity). Localized in the paranodal region of myelinating Schwann cells (By similarity). Localized to the leading edge of the actin cortex of migrating epithelia cells (By similarity). {ECO:0000250|UniProtKB:E2QYC9, ECO:0000250|UniProtKB:Q63ZW7}

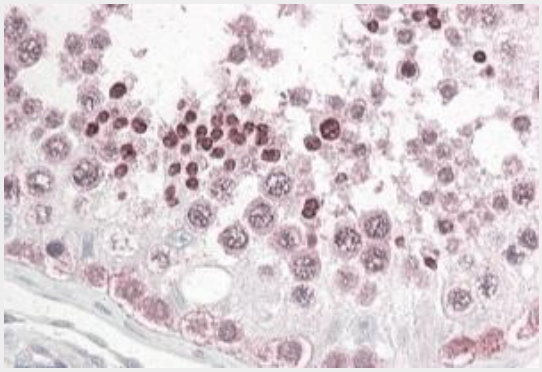
Tissue Location
Expressed in renal tubules (at protein level) (PubMed:19755384). Expressed in bladder, testis, ovary, small intestine, colon, heart, skeletal muscle, pancreas and cerebellum in the brain.

INADL / PATJ Antibody (N-Term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

INADL / PATJ Antibody (N-Term) - Images



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AF2388a (3.8 µg/ml) staining of paraffin embedded Human Testis. Steamed antigen retrieval with citrate buffer pH 6, AP-staining.

INADL / PATJ Antibody (N-Term) - References

Molecular characterization of a novel human PDZ domain protein with homology to INAD from Drosophila melanogaster. Philipp S, Flockerzi V. FEBS Lett. 1997 Aug 18;413(2):243-8. PMID: 9280290