

**INADL / PATJ Antibody (N-Terminus)**  
**Goat Polyclonal Antibody**  
**Catalog # ALS14942****Specification**

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**INADL / PATJ Antibody (N-Terminus) - Product Information**

Application	IHC-P, E
Primary Accession	<a href="#">Q8NI35</a>
Reactivity	Human, Rabbit, Monkey, Bovine
Host	Goat
Clonality	Polyclonal
Calculated MW	196kDa KDa
Dilution	IHC-P~~N/A E~~N/A

**INADL / PATJ Antibody (N-Terminus) - 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

**Target/Specificity**

Human INADL.

**Reconstitution & Storage**

Store at -20°C. Minimize freezing and thawing.

**Precautions**

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

**INADL / PATJ Antibody (N-Terminus) - 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:<a href="http://www.uniprot.org/citations/11927608" target="\_blank">11927608</a>, PubMed:<a href="http://www.uniprot.org/citations/16678097" target="\_blank">16678097</a>, PubMed:<a href="http://www.uniprot.org/citations/22006950" target="\_blank">22006950</a>). Required for the correct formation of tight junctions and epithelial apico-basal polarity (PubMed:<a href="http://www.uniprot.org/citations/11927608" target="\_blank">11927608</a>, PubMed:<a href="http://www.uniprot.org/citations/16678097" target="\_blank">16678097</a>). 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:<a href="http://www.uniprot.org/citations/22006950" target="\_blank">22006950</a>).

#### **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**

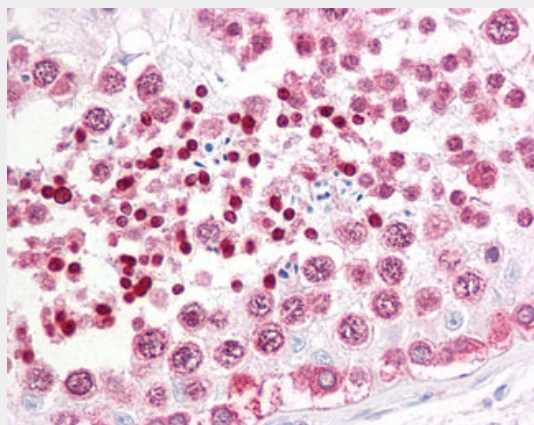
Expressed in renal tubules (at protein level) (PubMed:19755384). Expressed in bladder, testis, ovary, small intestine, colon, heart, skeletal muscle, pancreas and cerebellum in the brain.

#### **INADL / PATJ Antibody (N-Terminus) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### **INADL / PATJ Antibody (N-Terminus) - Images**



Anti-INADL antibody IHC of human testis.

#### **INADL / PATJ Antibody (N-Terminus) - Background**

Scaffolding protein that may bring different proteins into adjacent positions at the cell membrane. May regulate protein targeting, cell polarity and integrity of tight junctions. May regulate the

surface expression and/or function of ASIC3 in sensory neurons.

**INADL / PATJ Antibody (N-Terminus) - References**

Philipp S.,et al.FEBS Lett. 413:243-248(1997).  
Soejima H.,et al.Genomics 74:115-120(2001).  
Roh M.H.,et al.J. Cell Biol. 157:161-172(2002).  
Gregory S.G.,et al.Nature 441:315-321(2006).  
Lemmers C.,et al.J. Biol. Chem. 277:25408-25415(2002).