

TJP1 Antibody (C-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP21071a**Specification**

TJP1 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	Q07157
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	195459

TJP1 Antibody (C-term) - Additional Information**Gene ID** 7082**Other Names**

Tight junction protein ZO-1, Tight junction protein 1, Zona occludens protein 1, Zonula occludens protein 1, TJP1, ZO1

Target/Specificity

This TJP1 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 1328-1362 amino acids from the C-terminal region of human TJP1.

Dilution

WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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

TJP1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TJP1 Antibody (C-term) - Protein Information**Name** TJP1**Synonyms** ZO1**Function** TJP1, TJP2, and TJP3 are closely related scaffolding proteins that link tight junction (TJ)

transmembrane proteins such as claudins, junctional adhesion molecules, and occludin to the actin cytoskeleton (PubMed:[7798316](#), PubMed:[9792688](#)). The tight junction acts to limit movement of substances through the paracellular space and as a boundary between the compositionally distinct apical and basolateral plasma membrane domains of epithelial and endothelial cells. Necessary for lumenogenesis, and particularly efficient epithelial polarization and barrier formation (By similarity). Plays a role in the regulation of cell migration by targeting CDC42BPB to the leading edge of migrating cells (PubMed:[21240187](#)). Plays an important role in podosome formation and associated function, thus regulating cell adhesion and matrix remodeling (PubMed:[20930113](#)). With TJP2 and TJP3, participates in the junctional retention and stability of the transcription factor DBPA, but is not involved in its shuttling to the nucleus (By similarity).

Cellular Location

Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell junction, tight junction. Cell junction. Cell junction, gap junction. Cell projection, podosome. Note=Moves from the cytoplasm to the cell membrane concurrently with cell-cell contact (PubMed:[7798316](#)). At podosomal sites, is predominantly localized in the ring structure surrounding the actin core (PubMed:[20930113](#)) Colocalizes with SPEF1 at sites of cell-cell contact in intestinal epithelial cells (PubMed:[31473225](#)).

Tissue Location

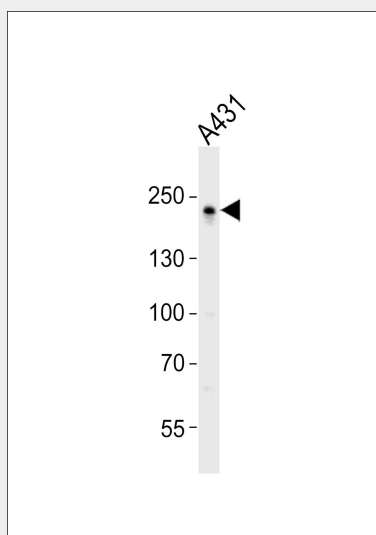
The alpha-containing isoform is found in most epithelial cell junctions. The short isoform is found both in endothelial cells and the highly specialized epithelial junctions of renal glomeruli and Sertoli cells of the seminiferous tubules

TJP1 Antibody (C-term) - Protocols

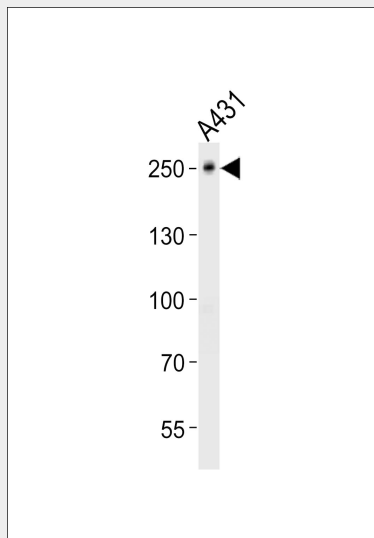
Provided below are standard protocols that you may find useful for product applications.

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

TJP1 Antibody (C-term) - Images



Western blot analysis of lysate from A431 cell line, using TJP1 Antibody (Cterm)(Cat. #AP21071a). AP21071a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.



Western blot analysis of lysate from A431 cell line, using TJP1 Antibody (Cterm)(Cat. #AP21071a). AP21071a was diluted at 1:1000. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysate at 20ug.

TJP1 Antibody (C-term) - Background

The N-terminal may be involved in transducing a signal required for tight junction assembly, while the C-terminal may have specific properties of tight junctions. The alpha domain might be involved in stabilizing junctions. Plays a role in the regulation of cell migration by targeting CDC42BPB to the leading edge of migrating cells.

TJP1 Antibody (C-term) - References

- Willott E.,et al.Proc. Natl. Acad. Sci. U.S.A. 90:7834-7838(1993).
- Ota T.,et al.Nat. Genet. 36:40-45(2004).
- Zody M.C.,et al.Nature 440:671-675(2006).
- Cohen C.J.,et al.Proc. Natl. Acad. Sci. U.S.A. 98:15191-15196(2001).
- D'Atri F.,et al.J. Biol. Chem. 277:27757-27764(2002).