

Datasheet for ABIN7599787
anti-TJP1 antibody (AA 1178-1527)



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Overview

Quantity:	100 µg
Target:	TJP1
Binding Specificity:	AA 1178-1527
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This TJP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), Immunofluorescence (IF), Flow Cytometry (FACS), Immunocytochemistry (ICC)

Product Details

Purpose:	Anti-TJP1 Antibody Picoband® (monoclonal, 3E12)
Immunogen:	E.coli-derived human TJP1 recombinant protein (Position: H1178-F1527). Human TJP1 shares 82% amino acid (aa) sequence identity with mouse TJP1.
Clone:	3E12
Isotype:	IgG1
Cross-Reactivity (Details):	No cross-reactivity with other proteins.
Characteristics:	Anti-TJP1 Antibody Picoband® (monoclonal, 3E12) (ABIN7599787). Tested in Flow Cytometry, IF, IHC, ICC, WB applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are

Product Details

designated as Picoband, ensuring unmatched performance.

Purification: Immunogen affinity purified.

Target Details

Target: TJP1

Alternative Name: TJP1 ([TJP1 Products](#))

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

Tissue Specificity: 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.

Background: Gamma-interferon-inducible protein Ifi-16 (Ifi-16) also known as interferon-inducible myeloid differentiation transcriptional activator is a protein that in humans is encoded by the IFI16 gene. This gene encodes a member of the HIN-200 (hematopoietic interferon-inducible nuclear antigens with 200 amino acid repeats) family of cytokines. The encoded protein contains domains involved in DNA binding, transcriptional regulation, and protein-protein interactions. The protein localizes to the nucleoplasm and nucleoli, and interacts with p53 and retinoblastoma-1. It modulates p53 function, and inhibits cell growth in the Ras/Raf signaling pathway. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Molecular Weight: 220 kDa

UniProt: [Q07157](#)

Pathways: [Carbohydrate Homeostasis](#), [Cell-Cell Junction Organization](#)

Application Details

Application Notes: Western blot, 0.1-0.5 µg/mL, Human

Immunohistochemistry (Paraffin-embedded Section), 0.5-1 µg/mL, Human

Immunocytochemistry/Immunofluorescence, 2 µg/mL, Human

Flow Cytometry (Fixed), 1-3 µg/1x10⁶ cells, Human

1. Mohandas TK, Chen XN, Rowe LB, Birkenmeier EH, Fanning AS, Anderson JM, Korenberg JR (February 1997). "Localization of the tight junction protein gene TJP1 to human chromosome 15q13, distal to the Prader-Willi/Angelman region, and to mouse chromosome 7". Genomics 30 (3): 594-7. 2. Willott, E., Balda, M. S., Fanning, A. S., Jameson, B., Van Itallie, C., Anderson, J. M.

Application Details

The tight junction protein ZO-1 is homologous to the Drosophila discs-large tumor suppressor protein of septate junctions. Proc. Nat. Acad. Sci. 90: 7834-7838, 1993.

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ , 0.05 mg NaN ₃ .
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Store at -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freeze-thaw cycles.