

Rabbit Tight junction protein ZO-1 Polyclonal Antibody | anti-TJP1 antibody

Anti-TJP1 Antibody

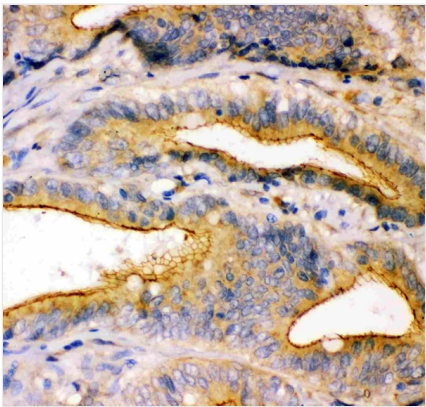
CATALOG # AAA46019	HOST Rabbit	REACTIVITY Human, Mouse and Rat. No cross reactivity with other proteins.
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PRODUCT SYNONYMS

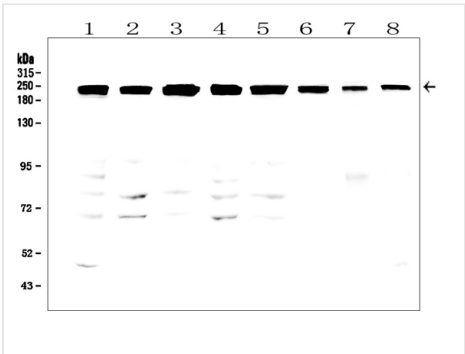
Tight junction protein ZO-1; Polyclonal Antibody; Anti-TJP1 Antibody; Tight junction protein 1 antibody; Tight junction protein ZO-1 antibody; Tight junction protein ZO1 antibody; Tjp1 antibody; zo-1 antibody; Zo1 antibody; ZO1_HUMAN antibody; Zona occludens 1 antibody; Zona occludens 1 protein antibody; Zona occludens protein 1 antibody; Zonula occludens 1 protein antibody; Zonula occludens protein 1 antibody; tight junction protein 1; anti-TJP1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse and Rat. No cross reactivity with other proteins.
Clonality	Polyclonal
Isotype	IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	1748
Reconstitution	0.2ml of distilled water will yield a concentration of 500ug/ml.
Immunogen	E.coli-derived human TJP1 recombinant protein (Position: H1178-F1527). Human TJP1 shares 82% amino acid (aa) sequence identity with mouse TJP1.
Preparation and Storage	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of TJP1 using anti-TJP1 antibody. TJP1 was detected in paraffin-embedded section of human intestinal cancer tissue. Heat mediated antigen retrieval was performed in citrate buffer (pH6, epitope retrieval solution) for 20 mins. The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 1ug/ml rabbit anti-TJP1 Antibody overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of TJP1 using anti-TJP1 antibody. Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel) / 90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 50ug of sample under reducing conditions. Lane 1: human A431 whole cell lysates, Lane 2: human Caco-2 whole cell lysates, Lane 3: human U2OS whole cell lysates, Lane 4: human K562 whole cell lysates. Lane 5: human PC-3 whole cell lysates, Lane 6: human T-47D whole cell lysates, Lane 7: rat ovary tissue lysates, Lane 8: mouse ovary tissue lysates. After Electrophoresis, proteins were transferred to a Nitrocellulose membrane at 150mA for 50-90 minutes. Blocked the membrane with 5% Non-fat Milk/ TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-TJP1 antigen affinity purified polyclonal antibody at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:10000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for TJP1 at approximately 220-240KD. The expected band size for TJP1 is at 195KD.

ADDITIONAL INFORMATION

Related Product Information for anti-TJP1 antibody	Description: Rabbit IgG polyclonal antibody for Tight junction protein ZO-1(TJP1) detection. Tested with WB, IHC-P in Human; Rat. Background: Tight junction protein ZO-1 is a protein that in humans is encoded by the TJP1 gene. It is mapped to 15q13.1. This gene encodes a protein located on a cytoplasmic membrane surface of intercellular tight junctions. The encoded protein may be involved in signal transduction at cell-cell junctions. It has been found that injected CagA associates with the epithelial tight-junction scaffolding protein TJP1 and the transmembrane protein junctional adhesion molecule, causing an ectopic assembly of tight junction components at sites of bacterial attachment, and altering the composition and function of the apical-junctional complex.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	116875767
NCBI GeneID	7082
NCBI Accession #	NP_003248.3
NCBI GenBank Nucleotide #	NM_003257.4
UniProt Accession #	Q07157; Q2NKP3; Q4ZGJ6; B4E3K1
NCBI Official Full Name	tight junction protein ZO-1 isoform a
NCBI Official Synonym Full Names	tight junction protein 1
NCBI Official Symbol	TJP1
NCBI Official Synonym Symbols	ZO-1
NCBI Protein Information	tight junction protein ZO-1; zona occludens 1; zonula occludens 1 protein
UniProt Protein Name	Tight junction protein ZO-1
UniProt Gene Name	TJP1

UniProt Synonym Gene Names	ZO1
UniProt Entry Name	ZO1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/tight-junction-protein-zo-1-antibody-elisa/46019>