

Datasheet for ABIN3043312  
**anti-TJP1 antibody (AA 1178-1527)**

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## Overview

Quantity:	100 µg
Target:	TJP1
Binding Specificity:	AA 1178-1527
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tight junction protein ZO-1(TJP1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	E.coli-derived human TJP1 recombinant protein (Position: H1178-F1527). Human TJP1 shares 82% amino acid (aa) sequence identity with mouse TJP1.
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	<p>Rabbit IgG polyclonal antibody for Tight junction protein ZO-1(TJP1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.</p> <p>Gene Name: tight junction protein 1</p> <p>Protein Name: Tight junction protein ZO-1</p>
Purification:	Immunogen affinity purified.

## Target Details

Target:	TJP1
Alternative Name:	TJP1 ( <a href="#">TJP1 Products</a> )
Background:	<p>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.</p> <p>Synonyms: 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</p>
Gene ID:	7082
UniProt:	<a href="#">Q07157</a>
Pathways:	<a href="#">Carbohydrate Homeostasis</a> , <a href="#">Cell-Cell Junction Organization</a>

## Application Details

Application Notes:	<p>WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, Mouse, Rat, The detection limit for TJP1 is approximately 0.25 ng/lane under reducing conditions.</p> <p>IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections.</p> <p>Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.</p>
Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
Restrictions:	For Research Use only

## Handling

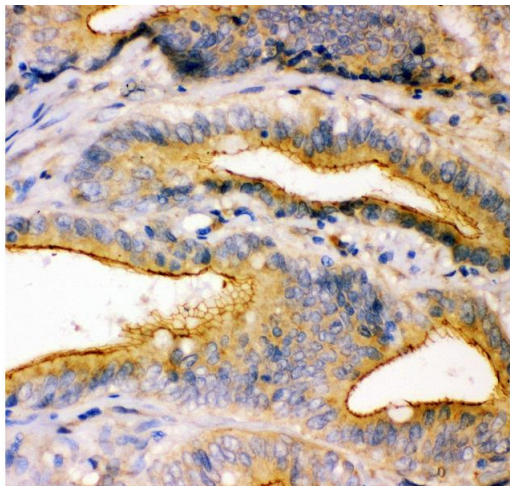
Format:	Lyophilized
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## Handling

Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	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.

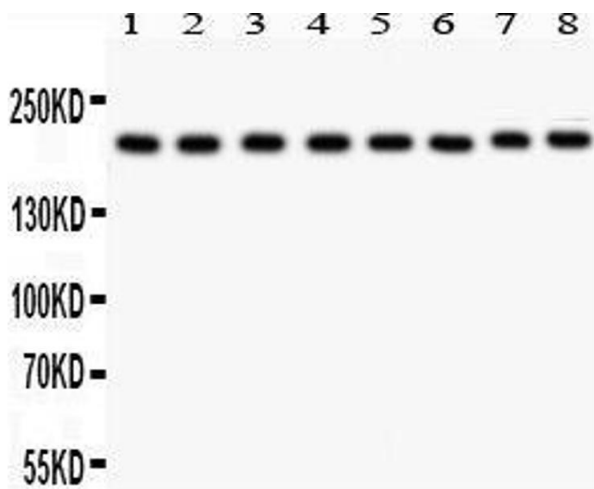
## Publications

Product cited in:	<p>Liu, Hong, Li, Ren, Wang, Xu, Shi, Xu: "A Cross Talk Between BRG1 and Males Absent on the First Contributes to Reactive Oxygen Species Production in a Mouse Model of Nonalcoholic Steatohepatitis." in: <b>Antioxidants &amp; redox signaling</b>, (2018) (<a href="#">PubMed</a>).</p> <p>Meyer, Fredette, Daniel, Sharma, Amann, Arterburn, Barton, Prossnitz: "Obligatory role for GPER in cardiovascular aging and disease." in: <b>Science signaling</b>, Vol. 9, Issue 452, pp. ra105, (2017) (<a href="#">PubMed</a>).</p>
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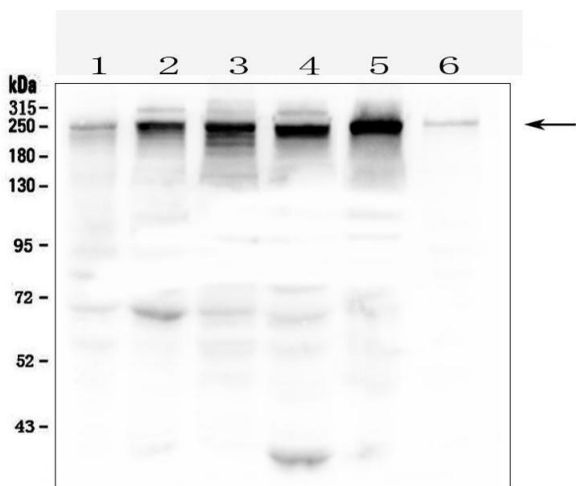
#### Immunohistochemistry

**Image 1.** Anti- TJP1 antibody, IHC(P) IHC(P): Human Intestinal Cancer Tissue



#### Western Blotting

**Image 2.** Anti- TJP1 antibody, Western blotting All lanes: Anti TJP1 at 0.5ug/ml Lane 1: Rat Liver Tissue Lysate at 50ug Lane 2: Mouse Liver Tissue Lysate at 50ug Lane 3: NRK Whole Cell Lysate at 40ug Lane 4: PC-12 Whole Cell Lysate at 40ug Lane 5: HELA Whole Cell Lysate at 40ug Lane 6: SMMC Whole Cell Lysate at 40ug Lane 7: HEPA Whole Cell Lysate at 40ug Lane 8: COLO320 Whole Cell Lysate at 40ug Predicted bind size: 195KD Observed bind size: 195KD



#### Western Blotting

**Image 3.** 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 U20S 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. 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 (Catalog # ) at 0.5 µg/mL overnight at 4°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 (Catalog # EK1002) with Tanon 5200 system. A specific band was detected for TJP1 at approximately 250KD. The expected band size for TJP1 is at 195KD.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043312.