

Datasheet for ABIN3044036  
**anti-TJP2 antibody (C-Term)**[Go to Product page](#)

## 2 Images

## Overview

Quantity:	100 µg
Target:	TJP2
Binding Specificity:	AA 1149-1167, C-Term
Reactivity:	Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TJP2 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Tight junction protein ZO-2(TJP2) detection. Tested with WB, IHC-P in Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence at the C-terminus of mouse TJP2(1149-1167aa AHSKRGYYSQPSRYRDTTEL), identical to the related rat sequence.
Sequence:	AHSKRGYYSQ PSRYRDTTEL
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Tight junction protein ZO-2(TJP2) detection. Tested with WB, IHC-P in Mouse,Rat. Gene Name: tight junction protein 2 Protein Name: Tight junction protein ZO-2

## Product Details

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Purification: Immunogen affinity purified.

## Target Details

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Target: TJP2

Alternative Name: TJP2 ([TJP2 Products](#))

Background: TJP2(Tight Junction Protein 2), also known as Zona Occludens 2 or ZO2, is a protein that in humans is encoded by the TJP2 gene. Tight junction proteins(TJPs) belong to a family of membrane-associated guanylate kinase(MAGUK) homologs that are involved in the organization of epithelial and endothelial intercellular junctions. Duclos et al.(1994) mapped the TJP2 gene telomeric to the Friedreich ataxia critical region on chromosome 9q13-q21. TJP2 lies about 70 kb centromeric to the X123 gene and is transcribed in the centromere-to-telomere direction. Using in vitro assays and immunoprecipitation studies, Itoh et al.(1999) showed that the mouse Tjp1, Tjp2, and Tjp3 PDZ1 domains interacted with the C-terminal cytoplasmic domains of Cldn1 through Cldn8. In the mouse inner ear, Walsh et al.(2010) found that Tjp2 expression decreased rapidly between E16.5 and age 1 week to a level in adult mice that was approximately 50 % of the level at birth(P0).

Synonyms: Friedreich ataxia region gene X104(tight junction protein ZO-2) antibody|MGC26306 antibody|Tight junction protein 2 antibody|Tight junction protein ZO 2 antibody|Tight junction protein ZO-2 antibody|TJP2 antibody|X104 antibody|ZO 2 antibody|ZO-2 antibody|ZO2 antibody|ZO2\_HUMAN antibody|Zona occludens protein 2 antibody|Zonula occludens protein 2 antibody

UniProt: [Q9Z0U1](#)

## Application Details

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Application Notes: WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Mouse, Rat, The detection limit for TJP2 is approximately 2.5 ng/lane under reducing conditions.  
IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Mouse, Rat, 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.  
Notes: Tested Species: Species with positive results. Predicted Species: Species predicted to be fit for the product based on sequence similarities. Other applications have not been tested.  
Optimal dilutions should be determined by end users.

## Application Details

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

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 Thimerosal, 0.05 mg Sodium azide.

Preservative: Thimerosal (Merthiolate), Sodium azide

Precaution of Use: This product contains Sodium azide and Thimerosal (Merthiolate): POISONOUS AND HAZARDOUS SUBSTANCES which should be handled by trained staff only.

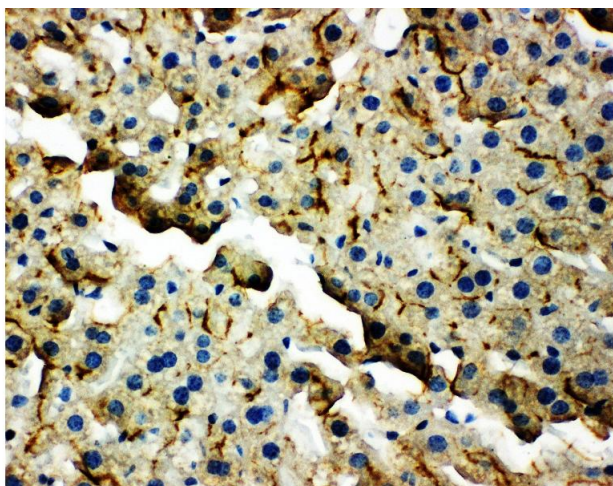
Handling Advice: Avoid repeated freezing and thawing.

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.

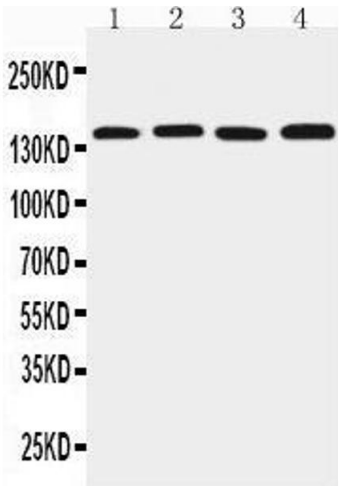
Expiry Date: 12 months

## Images



### Immunohistochemistry

**Image 1.** Anti-TJP2 antibody, IHC(P) IHC(P): Mouse Liver Tissue



Western Blotting

**Image 2.** Anti-TJP2 antibody, Western blotting Lane 1: Rat Brain Tissue Lysate Lane 2: PC-12 Cell Lysate Lane 3: Mouse Brain Tissue Lysate Lane 4: HEPA Cell Lysate