

Datasheet for ABIN6266146

anti-TJP1 antibody[Go to Product page](#)

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Overview

Quantity:	100 µL
Target:	TJP1
Reactivity:	Human, Mouse, Rat, Pig
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TJP1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA, Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	A synthesized peptide derived from human ZO 1
Isotype:	IgG
Specificity:	ZO 1 Antibody detects endogenous levels of total ZO 1
Cross-Reactivity:	Human, Mouse (Murine), Pig (Porcine), Rat (Rattus)
Purification:	The antiserum was purified by peptide affinity chromatography using SulfoLink™ Coupling Resin (Thermo Fisher Scientific).

Target Details

Target:	TJP1
Alternative Name:	ZO 1 (TJP1 Products)

Target Details

Background:	<p>Description: 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 to the junctional retention and stability of the transcription factor DBPA, but is not involved in its shuttling to the nucleus (By similarity).</p> <p>Gene: TJP1</p>
Molecular Weight:	195 kDa
Gene ID:	7082
UniProt:	Q07157
Pathways:	Carbohydrate Homeostasis , Cell-Cell Junction Organization

Application Details

Application Notes:	WB 1:500-1:2000, IHC 1:50-1:200, IF 1:100-1:500
Restrictions:	For Research Use only

Handling

Format:	Liquid
Concentration:	1 mg/mL
Buffer:	Rabbit IgG in phosphate buffered saline , pH 7.4, 150 mM NaCl, 0.02 % sodium azide and 50 % glycerol.
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:	-20 °C

Handling

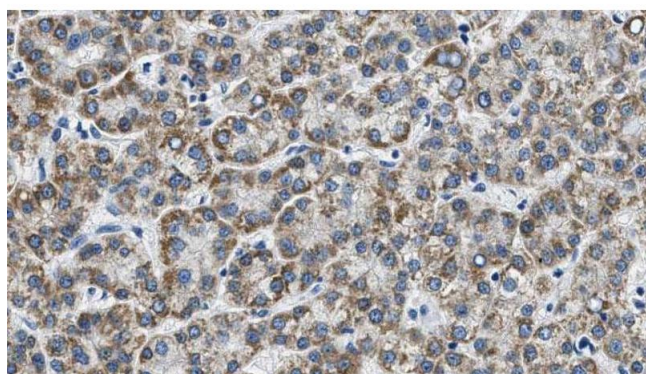
Storage Comment: Store at -20 °C. Stable for 12 months from date of receipt

Expiry Date: 12 months

Publications

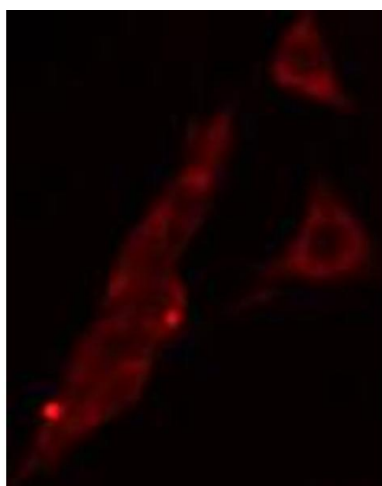
Product cited in: Qiu, Dong, Li, Kang, Gu, Zhu, Luo, Pang, Du, Ge: "Dihydromyricetin modulates p62 and autophagy crosstalk with the Keap-1/Nrf2 pathway to alleviate ethanol-induced hepatic injury." in: **Toxicology letters**, Vol. 274, pp. 31-41, (2017) ([PubMed](#)).

Images



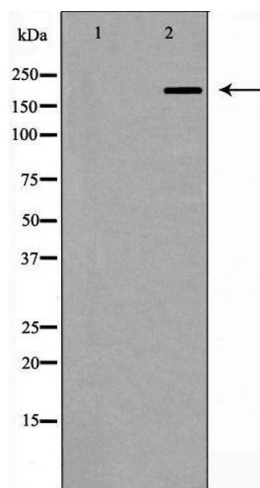
Immunohistochemistry

Image 1. ABIN6268691 at 1/100 staining Human liver cancer tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the antibody for 1.5 hours at 22°C. An HRP conjugated goat anti-rabbit antibody was used as the secondary.



Immunofluorescence (fixed cells)

Image 2. ABIN6268691 staining HeLa cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25°C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37°C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody (Cat.# S0006), diluted at 1/600, was used as secondary antibody.



Western Blotting

Image 3. Western blot analysis of ZO 1 expression in Human brain, The lane on the left is treated with the antigen-specific peptide.