

ZO-1 Polyclonal Antibody

Product Details	
Size	100 µg
Species Reactivity	Dog, Guinea pig, Human, Mouse, Rat
Published Species	Tag, Avian, Baboon, Pig, Rat, Non-human primate, Virus, Insect, Bovine, Zebrafish, Cat, Plant, Mouse, Human, Chicken, Xenopus, Horse, Rhesus monkey, Dog, Rabbit, C. elegans, Fruit fly
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	A 69 kD fusion protein(1) corresponding to amino acids 463-1109 of human ZO-1 cDNA.(2) This sequence lies N-terminal to the 80 amino acid region (the alpha-motif) present in the a+-isoform but absent in the a- isoform due to alternative splicing.
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage conditions	-20°C
RRID	AB_2533938

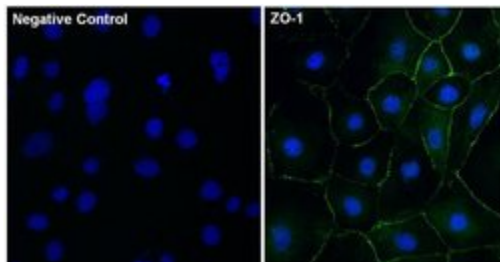
Applications	Tested Dilution	Publications
Western Blot (WB)	0.5-2 µg/mL	145 Publications
Immunohistochemistry (IHC)	2-5 µg/mL	131 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	47 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	21 Publications
Immunohistochemistry - Free Floating (IHC (Free))	-	2 Publications
Immunocytochemistry (ICC/IF)	5-10 µg/mL	193 Publications
ELISA (ELISA)	Assay-dependent	2 Publications
Immunoprecipitation (IP)	Assay-dependent	12 Publications
ChIP assay (ChIP)	-	1 Publication
Miscellaneous PubMed (Misc)	-	38 Publications

Product Specific Information

61-7300 has been successfully used in Western blot, Immunoprecipitation, Immunofluorescence, ELISA and Immunohistochemistry.

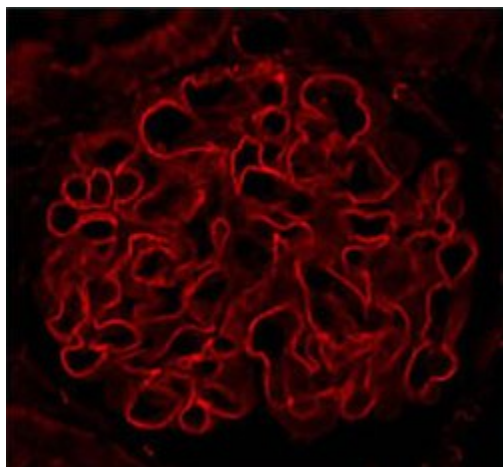
To achieve appropriate staining results on formalin-fixed, paraffin embedded tissue sections, protease Type XIV (Actinase E) pretreatment is required. The recommended dilution and incubation for protease is 1-2 mg/mL at 37°C for 10 minutes. Other enzyme and Heat Induced Epitope Retrieval pre-treatment methods may not be suitable for this particular antibody. Frozen sections have been successfully stained after fixation with acetone at 4°C.

Product Images For ZO-1 Polyclonal Antibody



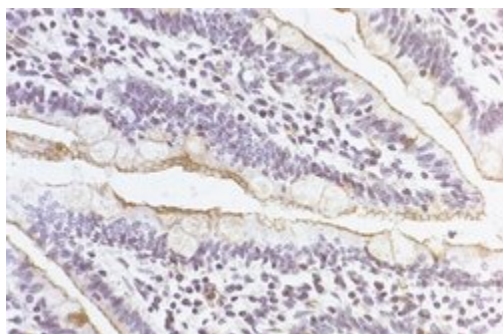
ZO-1 Antibody (61-7300) in ICC/IF

Immunofluorescent analysis of ZO-1 (green) in Caco-2 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes and blocked with 3% Blocker BSA (Product # 37525) in PBS for 15 minutes at room temperature. Cells were stained with or without ZO-1 rabbit polyclonal antibody (Product # 61-7300), at a concentration of 5 µg/mL for 1 hour at room temperature, and then incubated with a Goat anti-Rabbit IgG (H+L) Superclonal Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:1000 for 1 hour at room temperature (both panels, green). Nuclei (both panels, blue) were stained with Hoechst 33342 dye (Product # 62249). Images were taken on a Thermo Scientific ToxInsight at 20X magnification.



ZO-1 Antibody (61-7300) in IHC

Indirect immunofluorescence staining of rat glomerulus using Zymed (R) Rb anti-ZO-1 (Product # 61-7300) (red). Image courtesy of Hidetake Kurihara, PhD, Juntendo University School of Medicine, Tokyo, Japan.



ZO-1 Antibody (61-7300) in IHC

Immunohistochemical analysis of ZO-1 in small intestine using a polyclonal antibody (Product # 61-7300).

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Western Blot (145)

Nutrients

Transport of Dietary Anti-Inflammatory Peptide, -Glutamyl Valine (-EV), across the Intestinal Caco-2 Monolayer.

"61-7300 was used in Western Blot, Immunocytochemistry to elucidate the mechanism of transport of -EV across Caco-2 cells."

Authors: Guha S, Alvarez S, Majumder K

Species
Human

Dilution
1:20

Year
2021

Frontiers in cellular neuroscience

DL-3n-Butylphthalide Improves Blood-Brain Barrier Integrity in Rat After Middle Cerebral Artery Occlusion.

"61-7300 was used in Western Blot, Immunohistochemistry to conclude that NBP protected blood-brain barrier integrity and attenuated brain injury in the acute phase of ischemic stroke by decreasing AQP4 expression and MMP-9 enzyme activity."

Authors: Mamtilahun M, Wei Z, Qin C, Wang Y, Tang Y, Shen FX, Tian HL, Zhang Z, Yang GY

Species
Rat

Dilution
1:1000

Year
2021

[View more WB references on thermofisher.com](#)

Immunohistochemistry (131)

Neural plasticity

Cisplatin-Induced Stria Vascularis Damage Is Associated with Inflammation and Fibrosis.

"61-7300 was used in Immunohistochemistry-immunofluorescence to determine that cisplatin induces stria vascularis damage via fibrosis and inflammation and generates complex expression changes of cell junctions."

Authors: Zhang N, Cai J, Xu L, Wang H, Liu W

Species
Mouse

Dilution
1:1000

Year
2021

Frontiers in immunology

Retinal Distribution and Extracellular Activity of Granzyme B: A Serine Protease That Degrades Retinal Pigment Epithelial Tight Junctions and Extracellular Matrix Proteins.

"61-7300 was used in Immunohistochemistry to reveal that GzmB is present in RPE and choroidal mast cells."

Authors: Matsubara JA, Tian Y, Cui JZ, Zeglinski MR, Hiroyasu S, Turner CT, Granville DJ

Species
Human

Dilution
1:100

Year
2021

[View more IHC references on thermofisher.com](#)

More applications with references on thermofisher.com

IHC (P) (47)

IHC (PFA) (1)

IHC (F) (21)

IHC (Free) (2)

ICC/IF (193)

ELISA (2)

IP (12)

ChIP (1)

Misc (38)

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