



ZO-1 Monoclonal Antibody (ZO1-1A12)

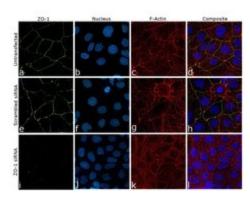
| Product Details | | | |
|------------------------|---|--|--|
| Size | 100 μg | | |
| Species | Dog, Human, Mouse, Rhesus monkey | | |
| Published Species | Tag, Rat, Pig, Reptile, Non-human primate, Virus, Mammal, Sheep, Bovine, Hamster, Fish, Zebrafish, Human, Mouse, Chicken, Rhesus monkey, Xenopus, Guinea pig, Dog, Rabbit | | |
| Expression System | Mouse / IgG1 | | |
| Class | Monoclonal | | |
| Туре | Antibody | | |
| Clone | ZO1-1A12 | | |
| Conjugate | Unconjugated | | |
| Immunogen | Human recombinant ZO-1 fusion protein encompassing amino acids 334-634 | | |
| Form | Liquid | | |
| Concentration | 0.5 mg/mL | | |
| Purification | Affinity chromatography | | |
| Storage buffer | PBS, pH 7.4 | | |
| Contains | 0.1% sodium azide | | |
| Storage Conditions | -20°C | | |
| RRID | AB_2533147 | | |

| Applications | Tested Dilution | Publications |
|---|-----------------|------------------|
| ELISA (ELISA) | 0.1-1.0 μg/mL | - |
| Immunocytochemistry (ICC) | 5-10 μg/mL | 166 Publications |
| Immunofluorescence (IF) | 5-10 μg/mL | 102 Publications |
| Western Blot (WB) | 1-2 µg/mL | 78 Publications |
| Flow Cytometry (Flow) | - | 3 Publications |
| Immunohistochemistry (Frozen) (IHC (F)) | - | 22 Publications |
| Immunohistochemistry (IHC) | - | 119 Publications |
| Immunohistochemistry (PFA fixed) (IHC (PFA)) | - | 1 Publication |
| Immunohistochemistry (Paraffin) (IHC (P)) | - | 17 Publications |
| Immunohistochemistry - Free Floating (IHC (Free)) | - | 2 Publications |
| Immunoprecipitation (IP) | - | 5 Publications |
| Miscellaneous PubMed (Misc) | - | 84 Publications |

Product Specific Information

33-9100 has been successfully used in ELISA, Immunofluorescence and Western Blot analysis of ZO-1.

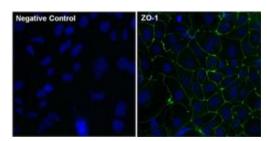
Advanced Verification Data



ZO-1 Antibody (33-9100)

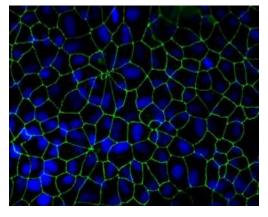
Antibody specificity was demonstrated by siRNA mediated knockdown of target protein. Caco-2 cells were transfected with ZO-1 siRNA and decrease in signal intensity was observed in ICC application using Anti-ZO-1 Monoclonal Antibody (ZO1-1A12) (Product # 33-9100). Knockdown validation info.

Product Images For ZO-1 Monoclonal Antibody (ZO1-1A12)



ZO-1 Antibody (33-9100) in 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 mouse monoclonal antibody (Product # 33-9100), at a concentration of 5 μ g/mL for 1 hour at room temperature, and then incubated with a Goat anti-Mouse IgG (H+L) Superclonal Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A28175) at a dilution of 1:1000 for 1 hour s 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 (33-9100) in IF

Immunofluorescent detection of Zo-1 in MDCK cells. Confluent monolayers were fixed in 50%methanol/50%Acetone, blocked for at least 30 minutes in 1% BSA then incubated 2 hours with a Zo-1 monoclonal antibody (Product # 33-9100) at 5 µg/mL, washed, then incubated 1 hour with Alexa Fluor 488 conjugated Donkey anti-Mouse secondary antibody (Product # A-21202) at a dilution of 1:2000. Cells were counterstained with DAPI (blue). Coverslips were mounted with Prolong Gold Antifade reagent (Product # P36930) and imaged at 40X. Images generated by Joell Solan in Paul Lampe Lab at the Fred Hutchinson cancer Research Center.

View more figures on thermofisher.com

□ 599 References

Immunofluorescence (102)

Frontiers in molecular neuroscience

Glial Cells in the Fish Retinal Nerve Fiber Layer Form Tight Junctions, Separating and Surrounding Axons.

"33-9100 was used in Immunohistochemistry-immunofluorescence to investigate the nerve fibre layer of the cichlid fish, Astatotilapia burtoni, for components that might regulate the extracellular environment."

Authors: Garcia-Pradas L, Gleiser C, Wizenmann A, Wolburg H, Mack AF

Species Fish

Dilution 1:100

Year 2020

mSphere

Modeling Group B *Streptococcus* and Blood-Brain Barrier Interaction by Using Induced Pluripotent Stem Cell-Derived Brain Endothelial Cells.

"33-9100 was used in Immunocytochemistry-immunoflourescence to evaluate whether induced pluripotent stem cellderived brain microvascular endothelial cells are appropriate for modelling bacterial interaction with the blood-brain barrier."

Authors: Kim BJ, Bee OB, McDonagh MA, Stebbins MJ, Palecek SP, Doran KS, Shusta EV

Species

Human

Dilution Not Cited

Year 2019

View more IF references on thermofisher.com

Immunohistochemistry (119)

Frontiers in molecular neuroscience

Glial Cells in the Fish Retinal Nerve Fiber Layer Form Tight Junctions, Separating and Surrounding Axons.

"33-9100 was used in Immunohistochemistry-immunofluorescence to investigate the nerve fibre layer of the cichlid fish, Astatotilapia burtoni, for components that might regulate the extracellular environment."

Authors: Garcia-Pradas L, Gleiser C, Wizenmann A, Wolburg H, Mack AF

Species

Fish

Dilution 1:100

Year

2020

Stem cells international

Generation of Retinal Organoids with Mature Rods and Cones from Urine-Derived Human Induced Pluripotent Stem Cells.

"33-9100 was used in Immunohistochemistry to study the ability of urine cells that have been reprogrammed into human induced pluripotent stem cells to differentiate towards retinal fates and form 3D retinal organoids."

Authors: Li G,Xie B,He L,Zhou T,Gao G,Liu S,Pan G,Ge J,Peng F,Zhong X

Species Human

пишап

Dilution 1:400

Year 2020

View more IHC references on thermofisher.com

More applications with references on thermofisher.com

ICC (166) WB (78) Misc (84) IHC (P) (17) IHC (F) (22) IHC (PFA) (1) IHC (Free) (2) Flow (3)

IP (5)

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