

ZO-1 Monoclonal Antibody (ZO1-1A12), Alexa Fluor™ 488

Product Details

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| Size | 100 µg |
| Species Reactivity | Dog, Human |
| Published Species | Dog, Rat, Bovine, Zebrafish, Human, Mouse |
| Host/Isotype | Mouse / IgG1 |
| Class | Monoclonal |
| Type | Antibody |
| Clone | ZO1-1A12 |
| Conjugate | Alexa Fluor™ 488 |
| Excitation/Emission Max | 499/520 nm |
| Immunogen | Human recombinant ZO-1 fusion protein encompassing amino acids 334-634 |
| Form | Liquid |
| Concentration | 0.5 mg/mL |
| Purification | Protein A |
| Storage buffer | PBS, pH 7.4, with 4mg/mL BSA |
| Contains | 0.1% sodium azide |
| Storage conditions | 4° C, store in dark |
| RRID | AB_2532187 |

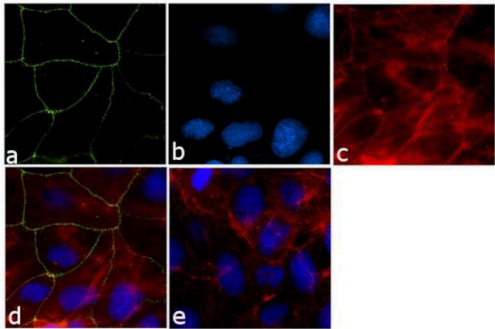
| Applications | Tested Dilution | Publications |
|--|------------------------------|-----------------|
| Western Blot (WB) | 1-2 µg/mL | 4 Publications |
| Immunohistochemistry (IHC) | - | 13 Publications |
| Immunohistochemistry (Paraffin) (IHC (P)) | - | 2 Publications |
| Immunohistochemistry (PFA fixed) (IHC (PFA)) | - | 1 Publication |
| Immunohistochemistry (Frozen) (IHC (F)) | - | 1 Publication |
| Immunocytochemistry (ICC/IF) | 5 µg/mL | 20 Publications |
| ELISA (ELISA) | 0.1-1.0 µg/mL (unconjugated) | - |

Product Specific Information

This monoclonal antibody detects ZO-1alpha+ and ZO-1alpha- isoforms. The antibody is specific for ZO-1 proteins; cross-reactivity with the related ZO-2 protein has not been observed. Species reactivity includes human (Caco-2 Cell line) and dog (MDCK cell line). Based on sequence homology, reactivity with other species is likely but has not been confirmed.

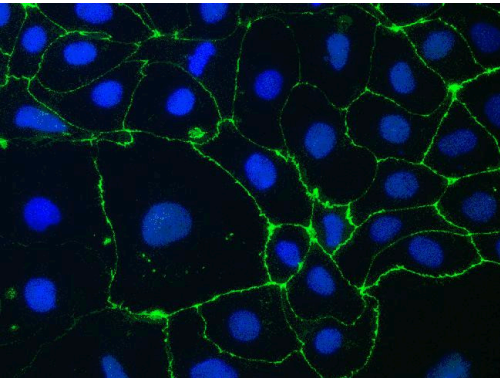
For Alexa Fluor 488 excitation 495 nm/emission 519 nm. Each lot of this antibody is tested for specificity by immunofluorescence. Expires one year from date of receipt when stored as instructed.

Product Images For ZO-1 Monoclonal Antibody (ZO1-1A12), Alexa Fluor™ 488



ZO-1 Antibody (339188) in ICC/IF

Immunofluorescence analysis of ZO-1 was performed using 90% confluent log phase Caco-2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 10 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with ZO-1 Monoclonal Antibody (ZO1-1A12), Alexa Fluor 488 at 5µg/mL in 0.1% BSA and incubated for 3 hours at room temperature (Panel a: green). Nuclei (Panel b: blue) were stained with SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). F-actin (Panel c: red) was stained with Rhodamine Phalloidin (Product # R415, 1:300). Panel d represents the merged image showing junctional localization. Panel e shows the isotype control. The images were captured at 60X magnification.



ZO-1 Antibody (339188) in ICC/IF

Immunofluorescence of Human Caco-2 cells stained with Mouse anti ZO-1 Monoclonal Antibody - Alexa Fluor® 488 (Product # 339188). DNA is counter stained with blue Hoechst 33258 (Product # H3569).

[View more figures on thermofisher.cn](https://thermofisher.cn)

Western Blot (4)

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| <p>Molecules (Basel, Switzerland)</p> <p>Three-Dimensional Aggregated Spheroid Model of Hepatocellular Carcinoma Using a 96-Pillar/Well Plate.</p> <p>"339188 was used in Western Blot to we proposed a 3D aggregated spheroid model (ASM) to create large single spheroids by aggregating cells in Matrigel attached to the surface of 96-pillar plates during cell culture."</p> <p>Authors: Lee SY,Teng Y,Son M,Ku B,Hwang HJ,Tergaonkar V,Chow PK,Lee DW,Nam DH</p> | <p>Year 2021</p> <p>Species Human</p> <p>Dilution 1:1000</p> |
| <p>Cells</p> <p>New Stable Cell Lines Derived from the Proximal and Distal Intestine of Rainbow Trout (<i>Oncorhynchus mykiss</i>) Retain Several Properties Observed In Vivo.</p> <p>"Published figure using ZO-1 monoclonal antibody (Product # 339188) in Immunocytochemistry"</p> <p>Authors: Pasquariello R,Verdile N,Pavlovic R,Panseri S,Schirmer K,Brevini TAL,Gandolfi F</p> | <p>Year 2021</p> |

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

Immunohistochemistry (13)

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|--|-----------------------------|
| <p>Journal of experimental & clinical cancer research : CR</p> <p>WNT11/ROR2 signaling is associated with tumor invasion and poor survival in breast cancer.</p> <p>"Published figure using ZO-1 monoclonal antibody (Product # 339188) in Immunocytochemistry"</p> <p>Authors: Menck K,Heinrichs S,Wlochowitz D,Sitte M,Noeding H,Janshoff A,Treiber H,Ruhwedel T,Schatlo B,von der Brelie C,Wiemann S,Pukrop T,Beißbarth T,Binder C,Bleckmann A</p> | <p>Year 2021</p> |
| <p>Communications biology</p> <p>AMPK modulation ameliorates dominant disease phenotypes of CTRP5 variant in retinal degeneration.</p> <p>"Published figure using ZO-1 monoclonal antibody (Product # 339188) in Immunocytochemistry"</p> <p>Authors: Miyagishima KJ,Sharma R,Nimmagadda M,Clore-Gronenborn K,Qureshy Z,Ortolan D,Bose D,Farnoodian M,Zhang C,Fausey A,Sergeev YV,Abu-Asab M,Jun B,Do KV,Kautzman Guerin MA,Calandria J,George A,Guan B,Wan Q,Sharp RC,Cukras C,Sieving PA,Hufnagel RB,Bazan NG,Boesze-Battaglia K,Miller S,Bharti K</p> | <p>Year 2021</p> |

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More applications with references on thermofisher.cn

- IHC (P) (2)
- IHC (PFA) (1)
- IHC (F) (1)
- ICC/IF (20)

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