

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

Product Details

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

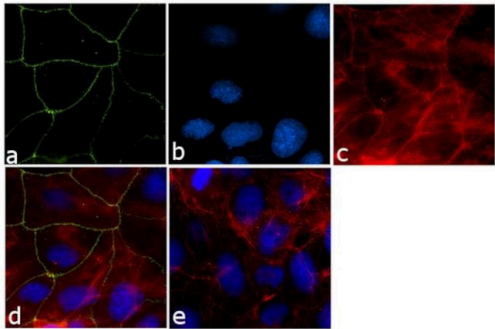
Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	4 Publications
Immunohistochemistry (IHC)	-	13 Publications
Immunohistochemistry (Paraffin) (IHC (P))	-	2 Publications
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Immunohistochemistry (Frozen) (IHC (F))	-	1 Publication
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.

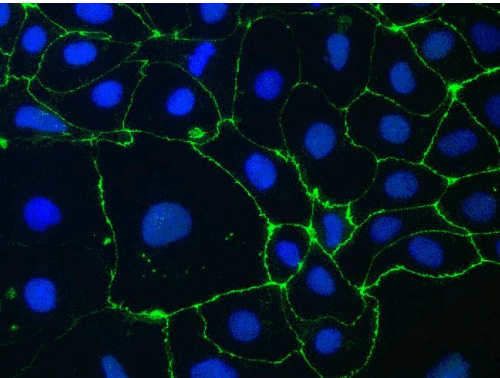
For Alexa Fluor 488 excitation 495 nm/emission 519 nm. Each lot of this antibody is tested for specificity by immunofluorescence. Expires one year from date of receipt when stored as instructed.

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).

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Western Blot (4)

<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.com](#)

Immunohistochemistry (13)

<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.com

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

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