

ZO-1 Polyclonal Antibody

Product Details	
Size	100 µL
Species Reactivity	Human
Published Species	Human
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant fragment corresponding to a region within amino acids 556 and 939 of Human ZO-1
Form	Liquid
Concentration	0.98 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7, with 20% glycerol
Contains	0.025% ProClin 300
Storage conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2546345

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:3,000	1 Publication
Immunocytochemistry (ICC/IF)	1:100-1:1,000	3 Publications

Product Specific Information

Recommended positive controls: HeLa, HCT116, HaCaT.

Predicted reactivity: Mouse (99%), Rat (99%), Dog (100%).

Product Images For ZO-1 Polyclonal Antibody

ZO-1 Antibody (PA5-28869) in ICC/IF

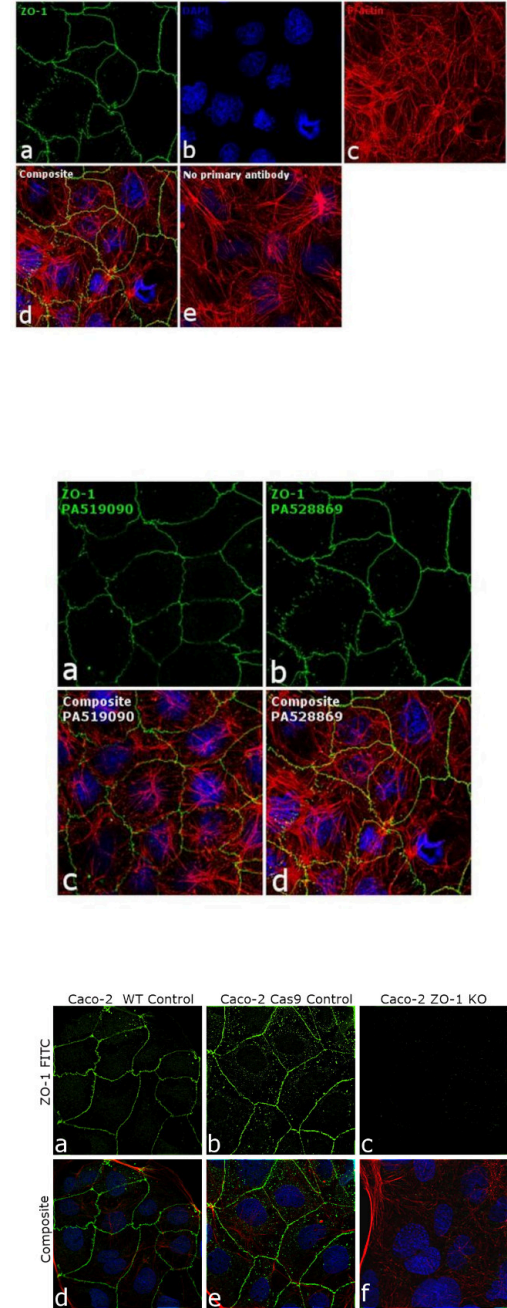
Immunofluorescence analysis of ZO-1 was performed using 90% confluent log phase Caco-2 cells. The cells were fixed with 4% paraformaldehyde for 10 minutes, permeabilized with 0.1% Triton™ X-100 for 15 minutes, and blocked with 1% BSA for 1 hour at room temperature. The cells were labeled with ZO-1 Rabbit Polyclonal Antibody (Product # PA5-28869) at 5 µg/mL in 0.1% BSA, incubated at 4 degree Celsius overnight and then labeled with Goat anti-Rabbit IgG (Heavy Chain) Superclonal™ Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034) at a dilution of 1:2000 for 45 minutes 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 represents control cells with no primary antibody to assess background. The images were captured at 60X magnification.

ZO-1 Antibody (PA5-28869)

Antibody specificity was demonstrated by showing that antibodies raised against the same target protein perform similarly. Immunofluorescence of ZO-1 using ZO-1 Polyclonal Antibody (Product # PA5-28869) performed along with another ZO-1 antibody (Product # PA5-19090) shows similar localization pattern in Caco-2 cells. {IAV}

ZO-1 Antibody (PA5-28869)

Antibody specificity was demonstrated by CRISPR-Cas9 mediated knockout of target protein. A loss of signal was observed for target protein in ZO-1 KO cell line compared to control cell line using ZO-1 Polyclonal Antibody (Product # PA5-28869). {KO}



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Western Blot (1)

<p>Journal of the American Heart Association</p> <p>Inhibition of MicroRNA-155 Supports Endothelial Tight Junction Integrity Following Oxygen-Glucose Deprivation.</p> <p>"Published figure using ZO-1 polyclonal antibody (Product # PA5-28869) in Western Blot"</p> <p>Authors: Pena-Philippides JC,Gardiner AS,Caballero-Garrido E,Pan R,Zhu Y,Roitbak T</p>	<p>Year</p> <p>2018</p>
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Immunocytochemistry (3)

<p>Frontiers in molecular biosciences</p> <p>Peanut lipids influence the response of bronchial epithelial cells to the peanut allergens Ara h 1 and Ara h 2 by decreasing barrier permeability.</p> <p>"PA5-28869 was used in Immunocytochemistry-immunofluorescence to provides evidence of the transport of Ara h 1 and Ara h 2 across the airway epithelium, of the induction of a pro-inflammatory milieu, and identifies an important role for PNL in controlling the amount of allergens that can cross the epithelial barrier."</p> <p>Authors: Palladino C,Ellinger I,Kalic T,Humeniuk P,Ret D,Mayr V,Hafner C,Hemmer W,Hoffmann-Sommergruber K,Untersmayr E,Bublin M,Radauer C,Breiteneder H</p>	<p>Year</p> <p>2023</p> <p>Species</p> <p>Human</p> <p>Dilution</p> <p>1:500</p>
<p>Biology open</p> <p>Vardenafil increases intracellular accumulation of the most prevalent mutant cystic fibrosis transmembrane conductance regulator (CTFR) in human bronchial epithelial cells.</p> <p>"PA5-28869 was used in Immunocytochemistry-immunoflourescence to support the view that vardenafil partially rescues F508del through cGMP/PKG-independent mechanisms."</p> <p>Authors: Dhooghe B,Bouzin C,Mottais A,Hermans E,Delion M,Panin N,Noel S,Leal T</p>	<p>Year</p> <p>2020</p> <p>Species</p> <p>Human</p> <p>Dilution</p> <p>1:200</p>

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