

ZO-3 Polyclonal Antibody

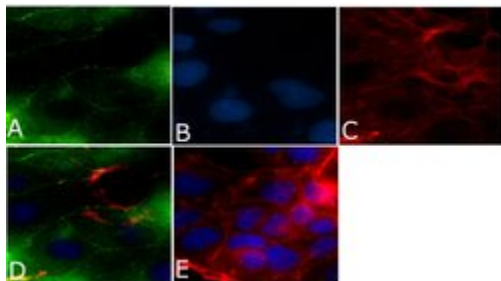
Product Details	
Size	100 µg
Species Reactivity	Dog, Human, Mouse, Rat
Published Species	Dog, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Synthetic peptide derived from an internal region of the human ZO-3 protein.
Form	Liquid
Concentration	0.25 mg/mL
Purification	Antigen affinity chromatography
Storage buffer	PBS, pH 7.4
Contains	0.1% sodium azide
Storage Conditions	-20°C
RRID	AB_2533256

Applications	Tested Dilution	Publications
Western Blot (WB)	1-2 µg/mL	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	-
ELISA (ELISA)	Assay Dependent	-
Immunoprecipitation (IP)	Assay Dependent	1 Publication
Immunocytochemistry (ICC/IF)	1 µg/mL	3 Publications
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

36-4000 was used successfully in the western blot analysis of ZO-3 in MDCK cell lysate.

Product Images For ZO-3 Polyclonal Antibody

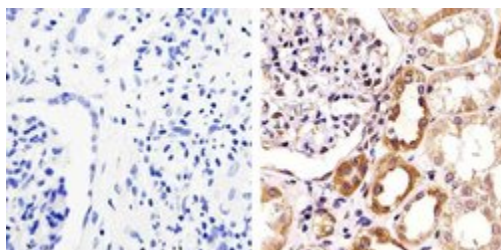


ZO-3 Antibody (36-4000) in ICC/IF

Immunofluorescent analysis of ZO-3/TJP3 Antibody was done on 90% confluent log phase CACO2 cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.25% Triton™ X-100 for 10 minutes, and blocked with 5% BSA for 1 hour at room temperature. The cells were labeled with ZO-3/TJP3 Antibody (Product # 36-4000) at 1µg/mL in 1% BSA and incubated for 3 hours at room temperature and then labeled with Alexa Fluor 488 Goat Anti-Rabbit IgG Secondary Antibody (Product # A-11008) at a dilution of 1:400 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 Alexa Fluor 594 Phalloidin (Product # A12381). Panel d is a merged image showing cell junctional localization. Panel e is a no primary antibody control. The images were captured at 40X magnification.

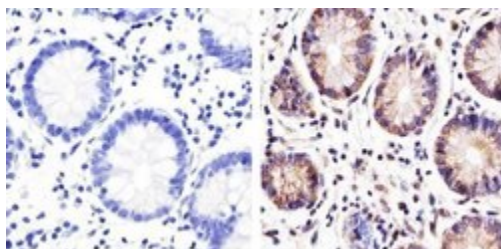
ZO-3 Antibody (36-4000) in IHC (P)

Immunohistochemistry analysis of ZO-3/TJP3 showing staining in the membrane of paraffin-embedded human kidney tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a ZO-3/TJP3 polyclonal antibody (Product # 36-4000) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



ZO-3 Antibody (36-4000) in IHC (P)

Immunohistochemistry analysis of ZO-3/TJP3 showing staining in the membrane of paraffin-embedded human colon tissue (right) compared to a negative control without primary antibody (left). To expose target proteins, antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H2O2-methanol for 15 min at room temperature, washed with ddH2O and PBS, and then probed with a ZO-3/TJP3 polyclonal antibody (Product # 36-4000) diluted in 3% BSA-PBS at a dilution of 1:100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



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

6 References

Western Blot (1)

Molecular and cellular biology

Delineation of the key aspects in the regulation of epithelial monolayer formation.

Authors: Aschauer L, Gruber LN, Pfaller W, Limonciel A, Athersuch TJ, Cavill R, Khan A, Gstraunthaler G, Grillari J, Grillari R, Hewitt P, Leonard MO, Wilmes A, Jennings P

Species
Human

Dilution
1.25 µg/mL

Year
2013

Immunoprecipitation (1)

Neuroscience

Connexin47, connexin29 and connexin32 co-expression in oligodendrocytes and Cx47 association with zonula occludens-1 (ZO-1) in mouse brain.

Authors: Li X, Ionescu AV, Lynn BD, Lu S, Kamasawa N, Morita M, Davidson KG, Yasumura T, Rash JE, Nagy JI

Species
Human
Mouse

Dilution
Not Cited
Not Cited

Year
2004

Immunocytochemistry (3)

Molecular and cellular biology

Delineation of the key aspects in the regulation of epithelial monolayer formation.

Authors: Aschauer L, Gruber LN, Pfaller W, Limonciel A, Athersuch TJ, Cavill R, Khan A, Gstraunthaler G, Grillari J, Grillari R, Hewitt P, Leonard MO, Wilmes A, Jennings P

Species
Human

Dilution
1.25 µg/mL

Year
2013

Chemistry & biology

Family-wide investigation of PDZ domain-mediated protein-protein interactions implicates -catenin in maintaining the integrity of tight junctions.

"Published figure using ZO-3 polyclonal antibody (Product # 36-4000) in Immunofluorescence"

Authors: Gujral TS, Karp ES, Chan M, Chang BH, MacBeath G

Species
Human
Dog

Dilution
Not Cited
Not Cited

Year
2013

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More applications with references on thermofisher.com

Misc (1)

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