



ZO-3 Polyclonal Antibody

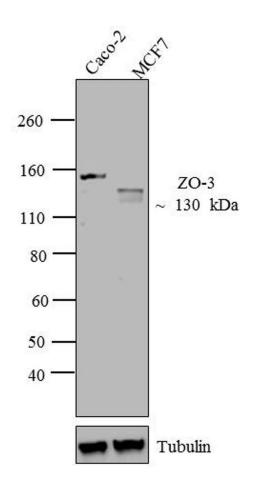
Product Details		
Size	100 μg	
Species Reactivity	Dog, Human, Mouse, Rat	
Published Species	Dog, Human, Mouse	
Host/Isotype	Rabbit / IgG	
Class	Polyclonal	
Туре	Antibody	
Conjugate	Unconjugated	
Immunogen	Synthetic peptide derived from an internal region of the human ZO-3 protein.	
Form	Liquid	
Concentration	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	2 Publications
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:200	-
Immunocytochemistry (ICC/IF)	1 μg/mL	3 Publications
ELISA (ELISA)	Assay-dependent	-
Immunoprecipitation (IP)	Assay-dependent	1 Publication
Miscellaneous PubMed (Misc)	-	1 Publication

Product Specific Information

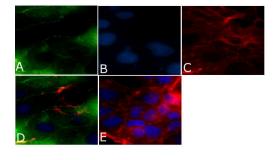
36-4000 was used successfully in the western blot analysis of ZO-3 in MDCK cell lysate.

Product Images For ZO-3 Polyclonal Antibody



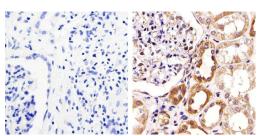
ZO-3 Antibody (36-4000) in WB

Western blot analysis of ZO-3 was performed by loading 30 µg of Caco-2 (lane1) and MCF7 (lane2) cell lysate using Novex® NuPAGE® 4-12 % Bis-Tris gel (Product # NP0322BOX), XCell SureLock™ Electrophoresis System (Product # El0002), Novex® Sharp Pre-Stained Protein Standard (LC5800), and Pierce™ Power Blotter System (22834). Proteins were transferred to a nitrocellulose membrane and blocked with 5 % skim milk for 1 hour at room temperature. ZO-3 was detected at ~ 130 kDa using ZO-3 Rabbit Polyclonal Antibody (Product # 36-4000) at 1-2 µg/mL in 5 % skim milk at 4°C overnight on a rocking platform on a rocking platform. Goat Anti-Rabbit IgG - HRP Secondary Antibody (G21234) at 1: 5000 dilution was used and chemiluminescent detection was performed using Pierce™ ECL Western Blotting Substrate (Product # 32106).



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.

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☐ 7 References

Western Blot (2)

The Prostate

E-cadherin is downregulated in benign prostatic hyperplasia and required for tight junction formation and permeability barrier in the prostatic epithelial cell monolayer.

"36-4000 was used in Western Blotting to indicate that tight junctions are compromised in BPH and loss of E-cadherin is potentially an important underlying mechanism, suggesting targeting E-cadherin loss could be a potential approach to prevent or treat BPH."

Authors: Li F,Pascal LE,Stolz DB,Wang K,Zhou Y,Chen W,Xu Y,Chen Y,Dhir R,Parwani AV,Nelson JB,DeFranco DB, Yoshimura N,Balasubramani GK,Gingrich JR,Maranchie JK,Jacobs BL,Davies BJ,Hrebinko RL,Bigley JD,McBride D, Guo P,He D,Wang Z

Year 2019

Species Human

Dilution 1:500

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

Year 2013

Species Human

Dilution 1.25 μg/mL

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

Year 2013

Species Human

> Dilution 1.25 µg/mL

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

Year 2013

Species Human Dog

View more ICC/IF references on thermofisher.cn

More applications with references on thermofisher.cn

IP (1) Misc (1)

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