

# ZO-3 Recombinant Polyclonal Antibody (24HCLC)

Product Details	
Size	100 µg
Species Reactivity	Human
Host/Isotype	Rabbit / IgG
Class	Recombinant Polyclonal
Type	Antibody
Clone	24HCLC
Conjugate	Unconjugated
Immunogen	Protein corresponding to Human ZO-3 (aa 700-909)
Form	Liquid
Concentration	0.5 mg/mL
Purification	Protein A
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.
RRID	AB_2609947

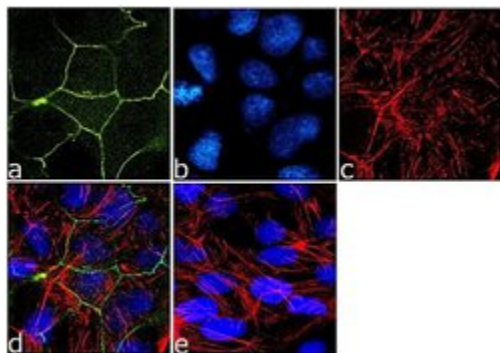
Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1 µg/mL	-
Immunofluorescence (IF)	1 µg/mL	-
Western Blot (WB)	1-2 µg/mL	-

## Product Specific Information

This antibody is predicted to react with Monkey, Pig and Bovine.

Recombinant rabbit polyclonal antibodies are unique offerings from Thermo Fisher Scientific. They are comprised of a selection of multiple different recombinant monoclonal antibodies, providing the best of both worlds - the sensitivity of polyclonal antibodies with the specificity of monoclonal antibodies - all delivered with the consistency only found in a recombinant antibody. While functionally the same as a polyclonal antibody - recognizing multiple epitope sites on the target and producing higher detection sensitivity for low abundance targets - a recombinant rabbit polyclonal antibody has a known mixture of light and heavy chains. The exact population can be produced in every lot, circumventing the biological variability typically associated with polyclonal antibody production.

## Product Images For ZO-3 Recombinant Polyclonal Antibody (24HCLC)

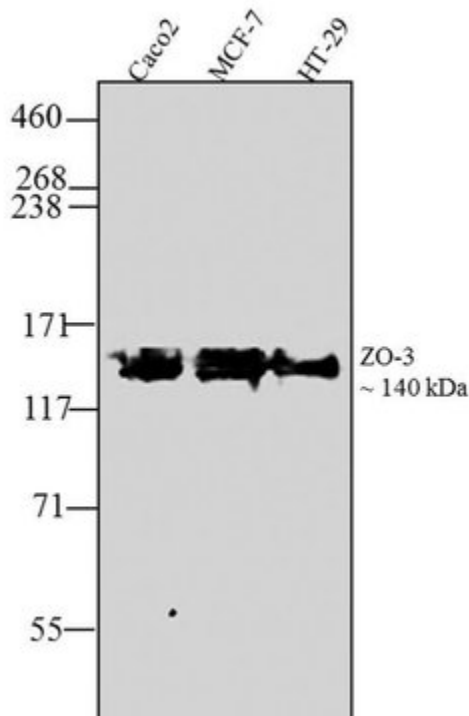


### ZO-3 Antibody (710857) in IF

Immunofluorescence was performed on fixed and permeabilized Caco-2 cells for detection of ZO-3 using Anti-ZO-3 Recombinant Rabbit Polyclonal Antibody (Product # 710857, 1 µg/mL) and labeled with Goat anti-Rabbit IgG (H+L) Superclonal Secondary Antibody, Alexa Fluor® 488 conjugate (Product # A27034, 1:2000). Panel a) shows representative cells that were stained for detection and localization of ZO-3 protein (green), Panel b) is stained for nuclei (blue) using SlowFade® Gold Antifade Mountant with DAPI (Product # S36938). Panel c) represents cytoskeletal F-actin staining using Alexa Fluor® 555 Rhodamine Phalloidin (Product # R415, 1:300). Panel d) is a composite image of Panels a, b and c clearly demonstrating junctional localization of ZO-3. Panel e) represents control cells with no primary Antibody to assess background.

### ZO-3 Antibody (710857) in WB

Western blot analysis was performed on whole cell extracts (30 µg lysate) of Caco-2 (Lane1), MCF-7 (Lane 2) and HT-29 (Lane 3). The blots were probed with ZO-3 Recombinant Rabbit Polyclonal Antibody (Product # 710857, 1-2 µg/mL) and detected by chemiluminescence using Goat anti-Rabbit IgG (H+L) Superclonal Secondary Antibody, HRP conjugate (Product # A27036, 0.4 µg/mL, 1:2500 dilution). A 140 kDa band corresponding to ZO-3 was observed across cell lines tested. Known quantity of protein samples were electrophoresed using Novex®NuPAGE®4-12% Bis-Tris gel (Product # NP0321BOX), XCell SureLock Electrophoresis System (Product # EI0002), and Novex® Sharp Pre-Stained Protein Standard (Product # LC5800). Resolved proteins were then transferred onto a nitrocellulose membrane with iBlot® Dry Blotting System (Product # IB21001). The membrane was probed with the relevant primary and secondary Antibody following blocking with 5% skimmed milk. Chemiluminescent detection was performed using Pierce™ ECL Western blotting Substrate (Product # 32106).



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