

## ZO-1 Monoclonal Antibody (R26.4C), eBioscience™

Product Details	
Size	100 µg
Species reactivity	Dog, Mouse, Rat
Published species	C. elegans, Human, Mouse, Xenopus
Host / Isotype	Rat / IgG2a, kappa
Class	Monoclonal
Type	Antibody
Clone	R26.4C
Conjugate	Unconjugated
Form	Liquid
Concentration	0.5 mg/mL
Purification	Affinity chromatography
Storage buffer	PBS, pH 7.2
Contains	0.09% sodium azide
Storage conditions	4°C
Shipping conditions	Ambient (domestic); Wet ice (international)
RRID	AB_2573026

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC/IF)	1:100	3 Publications
Immunohistochemistry (IHC)	-	4 Publications
Immunohistochemistry (Frozen) (IHC (F))	10 µg/mL	-
Immunohistochemistry (PFA fixed) (IHC (PFA))	-	1 Publication
Western Blot (WB)	Assay-Dependent	1 Publication

### Product Specific Information

**Description:** The monoclonal antibody R26.4C recognizes the tight junction protein 1, ZO-1 (zona occludens) of rat, mouse, canine, and porcine. ZO-1 is a member of the MAGUK family of tight junction associated scaffolding proteins, each containing a PDZ, SH3 and guanylate kinase-like (GUK) domain. ZO-1 is an integral member of the tight junction complex which forms a barrier to paracellular movement of substances, separating apical and basolateral fluids in relation to the epithelial cell layer. ZO-1 forms complexes with family members ZO-2, ZO-3, as well as occludin, cingulin, claudin-1-8, actin, alpha-catenin, the Ras-effector molecule AF-6, ZONAB, Apg-2, and the junctional adhesion molecules (JAM)-A-C. ZO-1 is thought to anchor the actin cytoskeleton to the tight junction. ZO-1 and ZO-2 have been shown to regulate cell cycle and proliferation with recent evidence highlighting the down-regulation of ZO-1 and ZO-2 with cancer progression.

**Applications Reported:** This R26.4C antibody has been reported for use in western blotting, immunohistochemical staining of frozen tissue sections, microscopy, and immunocytochemistry.

**Applications Tested:** This R26.4C antibody has been tested by immunocytochemistry of formaldehyde-fixed and permeabilized cells and by immunohistochemistry of frozen mouse tissue and can be used at less than or equal to 10 µg/mL. It is recommended that the antibody be carefully titrated for optimal performance in the assay interest.

**Purity:** Greater than 90%, as determined by SDS-PAGE.

**Aggregation:** Less than 10%, as determined by HPLC.

**Filtration:** 0.2 µm post-manufacturing filtered.

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