

For Research Use Only

# ZO-3 Recombinant monoclonal antibody

Catalog Number: 87266-1-RR



## Basic Information

<b>Catalog Number:</b> 87266-1-RR	<b>GenBank Accession Number:</b> NM_001267560.1	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 100ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 27134	<b>CloneNo.:</b> 252499G11
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> O95049-1	<b>Recommended Dilutions:</b> WB: 1:5000-1:50000 IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG	<b>Full Name:</b> tight junction protein 3 (zona occludens 3)	
<b>Immunogen Catalog Number:</b> EG5585	<b>Calculated MW:</b> 101 kDa	
	<b>Observed MW:</b> 140 kDa	

## Applications

<b>Tested Applications:</b> WB, IP, ELISA	<b>Positive Controls:</b>
<b>Species Specificity:</b> human	<b>WB :</b> HT-29 cells, HCT 116 cells, Caco-2 cells <b>IP :</b> HT-29 cells,

## Background Information

Tight junction (or zonula occludens) forms the continuous intercellular barrier between epithelial and endothelial cells, which is required to separate tissue spaces and regulate selective movement of solutes across the epithelium and endothelium (PMID: 20066090). ZO-3 (also known as TJP3) is a key scaffold protein of tight junctions. ZO-3 belongs to a family of multidomain proteins known as the membrane-associated guanylate kinase homologs (MAGUKs). ZO-3 regulates the stability of Cyclin D1, thereby influencing the proliferation of epithelial cells (PMID: 21411630).

## Storage

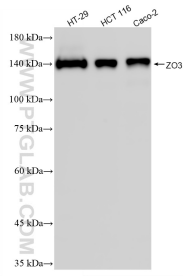
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

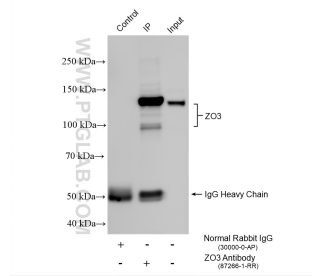
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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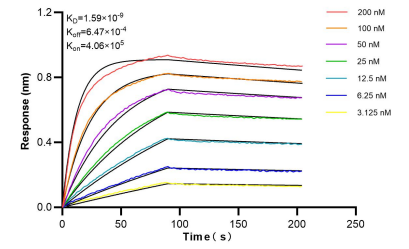
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87266-1-RR (ZO-3 antibody) at a dilution of 1:10000 incubated at room temperature for 1.5 hours.



IP result of anti-ZO-3 (IP:87266-1-RR, 4 $\mu$ g; Detection:87266-1-RR 1:2000) with HT-29 cells lysate 1760  $\mu$ g.



Biolayer interferometry (BLI) kinetic assays of 87266-1-RR against Human ZO-3 were performed. The affinity constant is 1.59 nM.