

**Product Name: Tight Junction Protein ZO 3 Rabbit
Monoclonal Antibody
Catalog #: AMRe02790**

Summary

Production Name	Tight Junction Protein ZO 3 Rabbit Monoclonal Antibody
Description	Recombinant Rabbit Monoclonal antibody
Host	Rabbit
Application	WB
Reactivity	Human,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal Antibody
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Purification	Affinity Purified

Immunogen

Gene Name	TJP3
Alternative Names	ZO3; ZO-3
Gene ID	27134
SwissProt ID	O95049

Application

Dilution Ratio	WB: 1/500-1/1000
Molecular Weight	Calculated MW: 101 kDa; Observed MW: 140 kDa

**Product Name: Tight Junction Protein ZO 3 Rabbit
Monoclonal Antibody
Catalog #: AMRe02790**



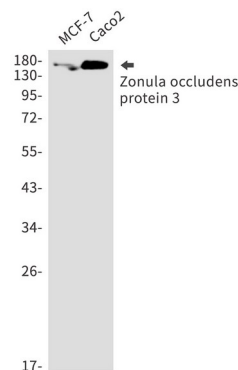
Background

TJP1, TJP2, and TJP3 are closely related scaffolding proteins that link tight junction (TJ) transmembrane proteins such as claudins, junctional adhesion molecules, and occludin to the actin cytoskeleton (PubMed:16129888). The tight junction acts to limit movement of substances through the paracellular space and as a boundary between the compositionally distinct apical and basolateral plasma membrane domains of epithelial and endothelial cells. Binds and recruits PATJ to tight junctions where it connects and stabilizes apical and lateral components of tight junctions (PubMed:16129888). Promotes cell-cycle progression through the sequestration of cyclin D1 (CCND1) at tight junctions during mitosis which prevents CCND1 degradation during M-phase and enables S-phase transition (PubMed:21411630). With TJP1 and TJP2, participates to the junctional retention and stability of the transcription factor DBPA, but is not involved in its shuttling to the nucleus. Contrary to TJP2, TJP3 is dispensable for individual viability, embryonic development, epithelial differentiation, and the establishment of TJs, at least in the laboratory environment.

Research Area

Signal Transduction

Image Data



Western blot analysis of Zonula occludens protein 3 in MCF-7, Caco2 lysates using Tight Junction Protein ZO 3 antibody.

Note

For research use only.