

POLYCLONAL ANTIBODY TO HUMAN ZONA OCCLUDENS 2 (ZO-2)



Catalog nr	HP9046 (lot number and expiry date are indicated on the label)										
Description	<p>The polyclonal antibody recognizes human zona occludens 2 (ZO-2), an ~160 kDa tight junction protein belonging to the membrane-associated guanylate kinase (MAGUK) family. Members of this family are involved in epithelial and endothelial intercellular junctions. They each contain at least one PSD95/Dlg/ZO-1 (PDZ) domain, a Src homology 3 (SH3) domain, and an enzymatically inactive guanylate kinase domain. PDZ domains are 90-amino acid protein-protein binding domains that recognize at least a 3-residue peptide motif in the COOH termini of their binding partners. PDZ domain-containing proteins, like ZO-2, typically act as scaffolding proteins that organize membrane receptors and cytosolic proteins into multimeric signaling complexes often at the sites of cell-cell contact. The effectiveness and stability of the epithelial barrier depends on a complex of proteins composing different intercellular junctions, which include tight junctions, adherens junctions, and desmosomes. ZO-2 can interact with zona occludens 1 (ZO-1). Furthermore, the PDZ2 domain of ZO-2 was shown to interact with connexin-43, the predominant connexin in epithelial and most other tissues which is involved in cell growth control and embryonic development.</p> <p>For immunisation of the guinea pig, amino acids 411-467 of human ZO-2 were used as immunogen. The antibody cross reacts with mouse ZO-2.</p>										
Aliases	Tight junction protein 2 (TJP2)										
Species	Guinea pig Ig										
Formulation	1 ml (100 µg/ml) 0.2 µm filtered antibody solution in PBS, containing 0.1% bovine serum albumin and 0.02% sodium azide.										
Application	The polyclonal antibody can be used for immunohistology on frozen sections. Furthermore, the polyclonal antibody is useful for Western blotting and immunofluorescence.										
Use	For immunohistology, immunofluorescence and Western blotting, dilutions to be used depend on detection system applied. It is recommended that users test the reagent and determine their own optimal dilutions. The typical starting working dilution is 1:50.										
Storage and stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for one year.										
Precautions	For research use only. Not for use in or on humans or animals or for diagnostics. It is the responsibility of the user to comply with all local/state and Federal rules in the use of this product. Hycult Biotech is not responsible for any patent infringements that might result with the use of or derivation of this product.										
Also available	<table><tr><td>HP9043</td><td>Polyclonal antibody against Human ZO-1</td></tr><tr><td>HP9044</td><td>Polyclonal antibody against Human ZO-1 alpha-plus</td></tr><tr><td>HP9045</td><td>Polyclonal antibody against Human ZO-1 alpha-minus</td></tr><tr><td>HP9047</td><td>Polyclonal antibody against Human Occludin</td></tr><tr><td>HM2099</td><td>Monoclonal antibody against Human JAM-A (JAM-1), clone M.Ab.F11</td></tr></table>	HP9043	Polyclonal antibody against Human ZO-1	HP9044	Polyclonal antibody against Human ZO-1 alpha-plus	HP9045	Polyclonal antibody against Human ZO-1 alpha-minus	HP9047	Polyclonal antibody against Human Occludin	HM2099	Monoclonal antibody against Human JAM-A (JAM-1), clone M.Ab.F11
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