

CERTIFICATE OF ANALYSIS – TECHNICAL DATA SHEET

Product name	ZO-2, Human, pAb	Expiry date	-
Catalog number	HP9046-20UG	Amount	20 µg
Lot number	-	Concentration	100 µg/ml
Volume	200 µl	Conjugate	None
Formulation	0.2 µm filtered in PBS+0.1%BSA+0.02%NaN3	Purification	Protein A
Host Species	Guinea pig Ig		
Endotoxin	N.A.		
Storage	4°C		

Application notes

	IHC-F	IHC-P	IF	FC	FS	IA	IP	W
Reference #								
Yes			•					•
No								
N.D.	•	•		•	•	•	•	

N.D.= Not Determined; IHC = Immuno histochemistry; F = Frozen sections; P = Paraffin sections; IF = Immuno Fluorescence; FC = Flow Cytometry; FS = Functional Studies; IA = Immuno Assays; IP = Immuno Precipitation; W = Western blot

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.

General Information

Description	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. 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.
Immunogen	Amino acids 411-467 of human ZO-2.
Aliases	Zona Occludens 2, Tight junction protein 2 (TJP2)
Cross reactivity	Mouse: Yes.
Storage&stability	Product should be stored at 4°C. Under recommended storage conditions, product is stable for at least 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 from the use or derivation of this product.

We hereby certify that the above-stated information is correct and that this product has been successfully tested by the Quality Control Department. This product was released for sale according to the existing specifications. This document has been produced electronically and is valid without a signature.

Approved by Manager of QC
Brenda Teunissen

Date
31/05/2021

Do you have any questions or comments regarding this product? Please contact us via support@hycultbiotech.com.