

Product datasheet for AP26409PU-N

TJP2 (411-467) Guinea Pig Polyclonal Antibody

Product data:

OriGene Technologies, Inc.

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Product Type:	Primary Antibodies
Applications:	IF, IHC, WB
Recommended Dilution:	Immunohistochemistry on Frozen Sections. Immunofluorescence. Western blot. The typical starting working dilution is 1/50.
Reactivity:	Human, Mouse
Host:	Guinea Pig
lsotype:	lg
Clonality:	Polyclonal
Immunogen:	Amino acids 411-467 of Human ZO-2
Specificity:	This antibody recognizes human zona occludens 2 (ZO-2).
Formulation:	PBS State: Purified State: Liquid 0.2 μm filtered lg fraction Stabilizer: 0.1% BSA Preservative: 0.02% Sodium Azide
Concentration:	lot specific
Purification:	Protein A Chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	tight junction protein 2
Database Link:	<u>Entrez Gene 9414 Human</u> <u>Q9UDY2</u>



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	TJP2 (411-467) Guinea Pig Polyclonal Antibody – AP26409PU-N
Background:	Zona occludens 2 (ZO-2) is an ~160 kDa tight junction protein belonging to the membrane- associated guanlyate 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.
Synonyms:	Tight junction protein 2, Tight junction protein ZO-2, ZO2, X104

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