

# Phospho-TJP2(S978) Antibody

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP3790a

## Product Information

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<b>Application</b>	DB, E
<b>Primary Accession</b>	<a href="#">Q9UDY2</a>
<b>Other Accession</b>	<a href="#">NP_001164101.1</a>
<b>Reactivity</b>	Human
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	Rabbit IgG
<b>Clone Names</b>	RB41329
<b>Calculated MW</b>	133958

## Additional Information

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<b>Gene ID</b>	9414
<b>Other Names</b>	Tight junction protein ZO-2, Tight junction protein 2, Zona occludens protein 2, Zonula occludens protein 2, TJP2, X104, ZO2
<b>Target/Specificity</b>	This TJP2 Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S978 of human TJP2.
<b>Dilution</b>	DB~~1:500 E~~Use at an assay dependent concentration.
<b>Format</b>	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
<b>Storage</b>	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
<b>Precautions</b>	Phospho-TJP2(S978) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	TJP2 ( <a href="#">HGNC:11828</a> )
<b>Function</b>	Plays a role in tight junctions and adherens junctions (By similarity). Acts as a positive regulator of RANKL-induced osteoclast differentiation, potentially via mediating downstream transcriptional activity (By similarity).

<b>Cellular Location</b>	Cell junction, adherens junction {ECO:0000250 UniProtKB:Q9Z0U1}. Cell membrane; Peripheral membrane protein; Cytoplasmic side. Cell junction, tight junction {ECO:0000250 UniProtKB:Q9Z0U1}. Nucleus. Note=Also nuclear under environmental stress conditions and in migratory endothelial cells and subconfluent epithelial cell cultures. Localizes to tight junctions during initial stages of their formation (By similarity). {ECO:0000250, ECO:0000250 UniProtKB:Q95168}
<b>Tissue Location</b>	This protein is found in epithelial cell junctions. Isoform A1 is abundant in the heart and brain. Detected in brain and skeletal muscle. It is present almost exclusively in normal tissues Isoform C1 is expressed at high level in the kidney, pancreas, heart and placenta. Not detected in brain and skeletal muscle. Found in normal as well as in most neoplastic tissues

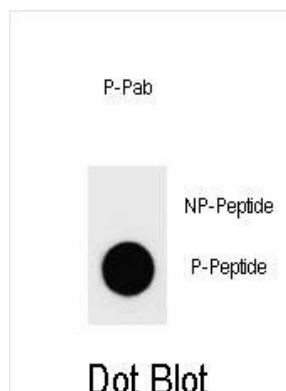
## Background

This gene encodes a zonula occluden that is a member of the membrane-associated guanylate kinase homolog family. The encoded protein functions as a component of the tight junction barrier in epithelial and endothelial cells and is necessary for proper assembly of tight junctions. Mutation in this gene have been identified in patients with hypercholanemia. Alternate splicing results in multiple transcript variants.

## References

Lechuga, S., et al. Exp. Cell Res. 316(19):3124-3139(2010)  
Remue, E., et al. FEBS Lett. 584(19):4175-4180(2010)  
Walsh, T., et al. Am. J. Hum. Genet. 87(1):101-109(2010)  
Meerschaert, K., et al. Cell. Mol. Life Sci. 66(24):3951-3966(2009)  
Fanning, A.S., et al. Ann. N. Y. Acad. Sci. 1165, 113-120 (2009) :

## Images



Dot blot analysis of Phospho-TJP2-S978 Antibody  
Phospho-specific Pab (Cat. #AP3790a) on nitrocellulose  
membrane. 50ng of Phospho-peptide or Non  
Phospho-peptide per dot were adsorbed. Antibody  
working concentrations are 0.6ug per ml.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.