

Rabbit ZO-2 Polyclonal Antibody | anti-ZO-2 antibody

Phospho-ZO-2 (Tyr1118) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329348	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

ZO-2; Polyclonal Antibody; Phospho-ZO-2 (Tyr1118) Antibody; C9DUPq21.11; DFNA51; DUP9q21.11; Friedreich ataxia region gene X104 (tight junction protein ZO-2); MGC26306; PFIC4; Tight junction protein 2; Tight junction protein ZO 2; Tight junction protein ZO-2; TJP2; X104; ZO 2; ZO2; ZO2_HUMAN; Zona occludens 2; Zona occludens protein 2; Zonula occludens protein 2; anti-ZO-2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-ZO-2 (Tyr1118) Antibody detects endogenous levels of ZO-2 only when phosphorylated at Tyr1118. Tissue Specificity: 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.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-ZO-2 antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ZO-2 around the phosphorylation site of Tyr1118.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Homodimer, and heterodimer with ZO1. Interacts with occludin, SAFB and UBN1. Interaction with SAFB occurs in the nucleus. Interacts with SCRIB. Interacts with USP53 (via the C-terminal region) (By similarity).
Similarity	Belongs to the MAGUK family.
Subcellular Location	Cell junction>Adherens junction. Cell membrane>Peripheral membrane protein>Cytoplasmic side. Cell junction>Tight junction. Nucleus. Note: Also nuclear under environmental stress conditions and in migratory endothelial cells and subconfluent epithelial cell cultures.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohistochemistry)
At 1/100 staining Human kidney cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



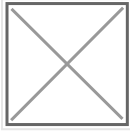
IHC (Immunohistochemistry)
At 1/100 staining Human ovarian cancer by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
At 1/100 staining Mouse colorectal tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



IHC (Immunohistochemistry)
Staining Rat spleen tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4 degree C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.



WB (Western Blot)
Western blot analysis of extracts from various samples, using Phospho-ZO-2 (Tyr1118) Antibody. Lane 1: Hela cells(LPS treatment), blocked with antigen-specific peptides, Lane 2: Hela cells(LPS treatment), Lane 3: Hela cells(heat shock treatment).

ADDITIONAL INFORMATION

Related Product Information for anti-ZO-2 antibody	Plays a role in tight junctions and adherens junctions.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	42518070
NCBI GeneID	9414
NCBI Accession #	NP_004808.2
NCBI GenBank Nucleotide #	NM_004817.3
UniProt Accession #	Q9UDY2; Q15883; Q5VXL0; Q5VXL1; Q8N756; Q8NI14; Q99839; A2A3H9; B7Z2R8; B7Z7T6; F5H301; F5H886
Molecular Weight	133,958 Da
NCBI Official Full Name	tight junction protein ZO-2 isoform 1
NCBI Official Synonym Full Names	tight junction protein 2
NCBI Official Symbol	TJP2
NCBI Official Synonym Symbols	ZO2; X104; PFIC4; DFNA51; DUP9q21.11; C9DUPq21.11
NCBI Protein Information	tight junction protein ZO-2; zona occludens 2; zonula occludens protein 2; Friedreich ataxia region gene X104 (tight junction protein ZO-2)
UniProt Protein Name	Tight junction protein ZO-2
UniProt Gene Name	TJP2

UniProt Synonym Gene Names	X104; ZO2
UniProt Entry Name	ZO2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/zo-2-antibody-peptide-elisa-immunohistochemistry-western-blot-elisa/329348>