

Rabbit Occludin Polyclonal Antibody | anti-OCN antibody

Phospho-Occludin (Ser507) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329405	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (91%), Bovine (91%), Horse (91%), Sheep (91%), Rabbit (91%), Dog (91%)	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

Occludin; Polyclonal Antibody; Phospho-Occludin (Ser507) Antibody; BLCPMG; FLJ08163; FLJ18079; FLJ77961; FLJ94056; MGC34277; OcIn; OCN_HUMAN; Tight junction protein occludin; anti-OCN antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (91%), Bovine (91%), Horse (91%), Sheep (91%), Rabbit (91%), Dog (91%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-Occludin (Ser507) Antibody detects endogenous levels of Occludin only when phosphorylated at Ser507 (mouse). Tissue Specificity: Localized at tight junctions of both epithelial and endothelial cells. Highly expressed in kidney. Not detected in testis.
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-OCN antibody	ELISA (Peptide ELISA), IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	A synthesized peptide derived from mouse Occludin (Q61146) around the phosphorylation site of Ser507.
Conjugation	Unconjugated
Fragment	Fab fragment
Post Translational Modifications	Dephosphorylated by PTPRJ. The tyrosine phosphorylation on Tyr-398 and Tyr-402 reduces its ability to interact with TJP1. Phosphorylation at Ser-490 also attenuates the interaction with TJP1.
Subunit Structure	Interacts with TJP1/ZO1. Interacts with VAPA. Interacts with CLDN1, CLDN6, CLDN9, CLDN11, CLDN12 and CLDN17.
Similarity	The C-terminal is cytoplasmic and is important for interaction with ZO-1. Sufficient for the tight junction localization. Involved in the regulation of the permeability barrier function of the tight junction (By similarity). The first extracellular loop participates in an adhesive interaction. Belongs to the ELL/occludin family.
Subcellular Location	Cell membrane>Multi-pass membrane protein. Cell junction>Tight junction.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IHC (Immunohiostchemistry)
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.



WB (Western Blot)
Western blot analysis of extracts from HEK-293, using Phospho-Occludin (Ser507) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-OCLN antibody	May play a role in the formation and regulation of the tight junction (TJ) paracellular permeability barrier. It is able to induce adhesion when expressed in cells lacking tight junctions.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	327478416
NCBI GeneID	100506658
NCBI Accession #	NP_001192184.1
NCBI GenBank Nucleotide #	NM_001205255.1
UniProt Accession #	Q16625; Q5U1V4; Q8N6K1; B5BU70; D2DU64; D2DU65; D2IGC0; D2IGC1; E2CYV9
Molecular Weight	59,144 Da
NCBI Official Full Name	occludin isoform b
NCBI Official Synonym Full Names	occludin
NCBI Official Symbol	OCLN
NCBI Official Synonym Symbols	BLCPMG
NCBI Protein Information	occludin; tight junction protein occludin
UniProt Protein Name	Occludin
UniProt Gene Name	OCLN
UniProt Entry Name	OCLN_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.