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Datasheet for 600-401-DG2

OCLN Antibody

Overview

Description:	Anti-OCLN (RABBIT) Antibody - 600-401-DG2
Item No.:	600-401-DG2
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse, Rat
Host Species:	Rabbit

Product Details

Background:	Tight junctions act as a semi-permeable barrier to the transport of ions, solutes, and water and are considered to function as a fence that divides apical and basolateral domains of plasma membranes. Tight junctions coordinate a variety of signaling and trafficking molecules regulating cell differentiation, proliferation, and polarity and contain a number of junctional proteins including Occludin, Claudins, junctional adhesion molecules (JAMs), as well as multiple scaffold proteins. Occludin, the first identified component of tight junction strands, is thought function as a signal transmitter in multiple signaling pathways and can associate with multiple kinases and phosphatases such as PI3-kinase and protein phosphatases 1 and 2A. At least two isoforms of OCLN are known to exist.
Synonyms:	OCLN Antibody, BLCPMG, Occludin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	OCLN
Reactivity:	Human, Mouse, Rat
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-OCLN antibody was prepared from whole rabbit serum produced by repeated immunizations with a 15 amino acid synthetic peptide from near the C-terminus of human OCLN.
Purity/Specificity:	Anti-OCLN Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with OCLN from other sources has not been determined.
Relevant Links:	• UniProtKB - Q16625 • GeneID - 4950 • NCBI - AAH29886

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-OCLN Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 59 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
IF:	20 µg/mL
IHC:	2.5 µg/mL
WB:	1 µg/mL

Formulation

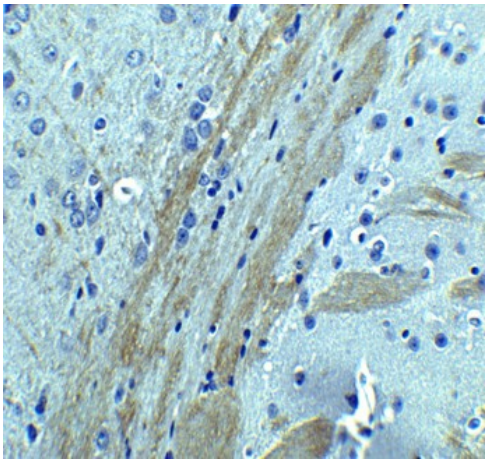
Physical State:	Liquid (sterile filtered)
Concentration:	1 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

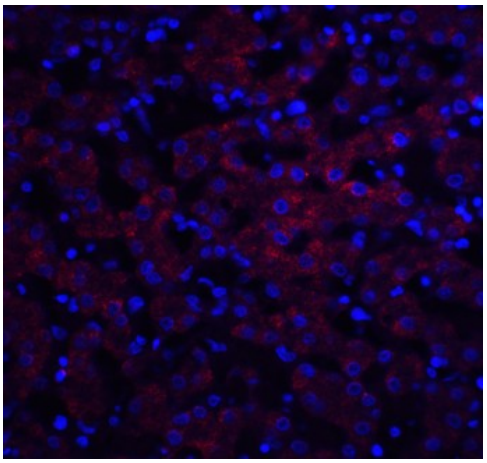
Shipping Condition:	Wet Ice

Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

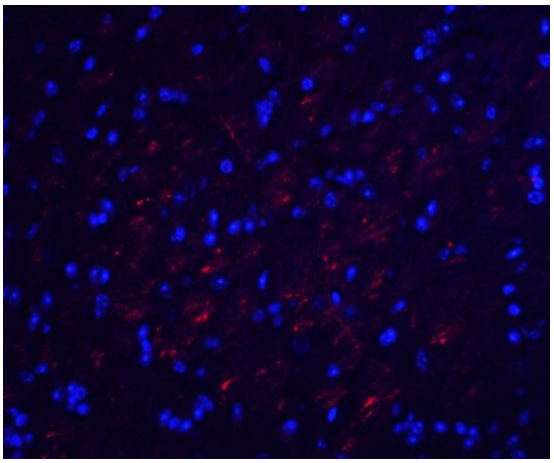
Images



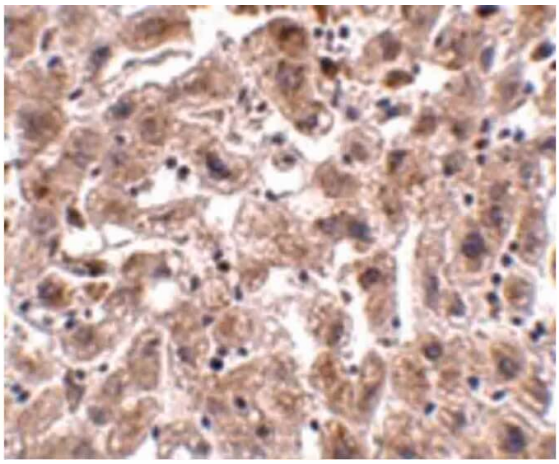
Immunohistochemistry
Immunohistochemistry of OCLN in mouse brain tissue with OCLN Antibody at 5 µg/mL.



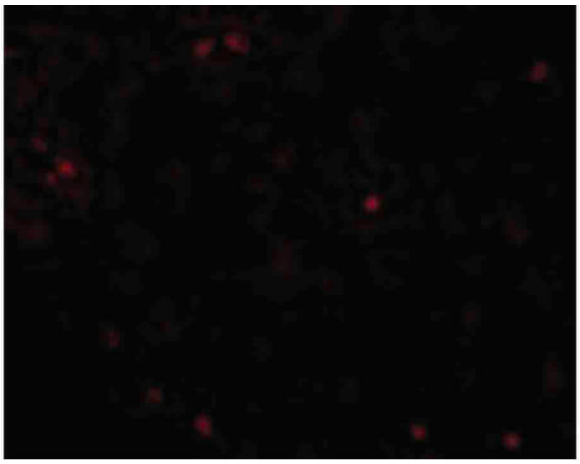
Immunofluorescence Microscopy
Immunofluorescence of OCLN in human liver tissue with OCLN antibody at 20 µg/ml. Red: OCLN Antibody. Blue: DAPI staining.



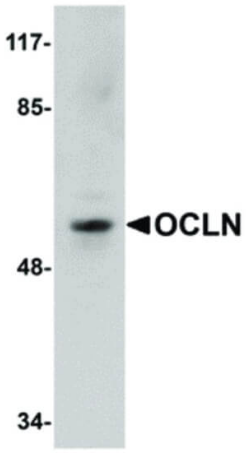
Immunofluorescence Microscopy
Immunofluorescence of OCLN in mouse brain tissue with OCLN antibody at 20 µg/mL. Red: OCLN Antibody. Blue: DAPI staining.



Immunohistochemistry
Immunohistochemistry of OCLN antibody. Tissue: Human liver tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: OCLN antibody at 2.5 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: OCLN is a membrane protein Staining: OCLN as precipitated brown signal with blue nuclear counterstain.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of OCLN antibody. Tissue: Human Liver cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: OCLN antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: OCLN is a membrane protein. Staining: OCLN as red fluorescent signal.



Western Blot

Western Blot of OCLN antibody. Lane 1: Human liver tissue lysate with OCLN antibody at 1 µg/mL. Load: 35 µg per lane. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 59 kDa, 59 kDa for OCLN. Other band(s): OCLN splice variants and isoforms.

Disclaimer

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