

Datasheet for 600-401-DG2**OCN Antibody****Overview**

Description:	Anti-OCN (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 OCN are known to exist.
Synonyms:	OCN Antibody, BLCPMG, Occludin
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

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

Immunogen:	Anti-OCN 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 OCN.
Purity/Specificity:	Anti-OCN Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with OCN 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-OCN 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

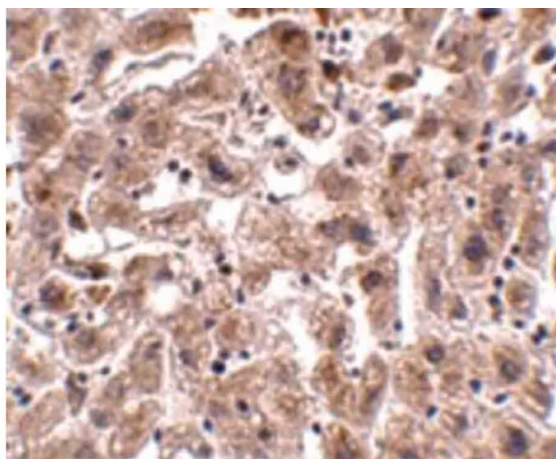
Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition: Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.

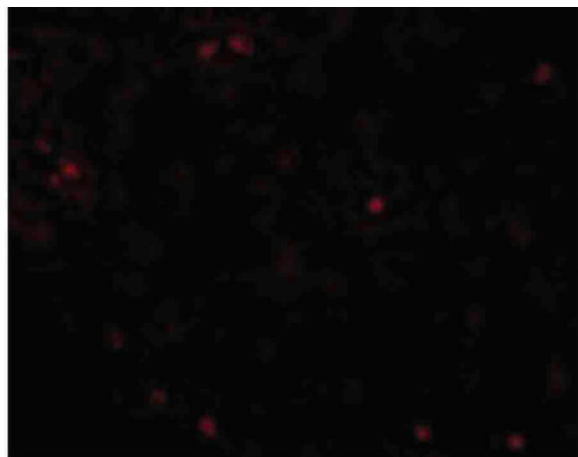
Expiration: Expiration date is one (1) year from date of receipt.

Images



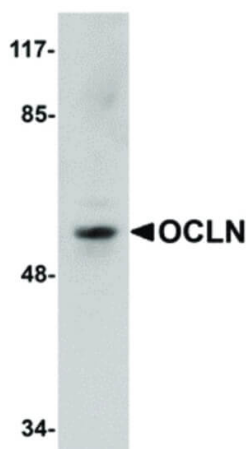
Immunohistochemistry

Immunohistochemistry of OCLN 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 μ g/mL. Load: 35 μ g 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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.