

For Research Use Only

# Occludin Monoclonal antibody

Catalog Number: 66378-1-Ig

Featured Product

127 Publications



## Basic Information

Catalog Number:

66378-1-Ig

Size:

150ul, Concentration: 1000 ug/ml by Nanodrop;

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG4057

GenBank Accession Number:

BC029886

GeneID (NCBI):

4950

UNIPROT ID:

Q16625

Full Name:

occludin

Calculated MW:

522 aa, 59 kDa

Observed MW:

59 kDa

Purification Method:

Protein A purification

CloneNo.:

1D3C4

Recommended Dilutions:

WB 1:5000-1:50000

IHC 1:50-1:500

## Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse, rat, pig

Cited Species:

human, mouse, rat, pig, bovine, sheep

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

**WB** : HUVEC cells, Jurkat cells, mouse colon tissue, LNCaP cells, U2OS cells, pig colon tissue, rat colon tissue, 4T1 cells, HEK-293 cells

**IHC** : human colon cancer tissue, mouse kidney tissue

## Background Information

Occludin is an integral membrane protein located at the tight junction. It is a tetraspanin protein with four transmembrane domains, intracellular N and C termini and two extracellular loops. Occludin plays a role in the formation and regulation of the tight junction paracellular permeability barrier. Occludin can exist in different isoforms, owing to modifications at the posttranscriptional and posttranslational levels, the monomeric occludin migrates as 53-65 kDa on SDS-PAGE (PMID: 22083955; 19457074).

## Notable Publications

Author	Pubmed ID	Journal	Application
Dayun Feng	36179025	Sci Adv	WB
Yingying Wang	36174863	Int J Biol Macromol	WB
Cantao Yang	36108982	Food Chem Toxicol	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

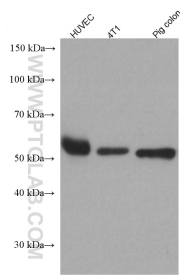
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

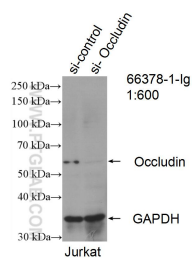
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
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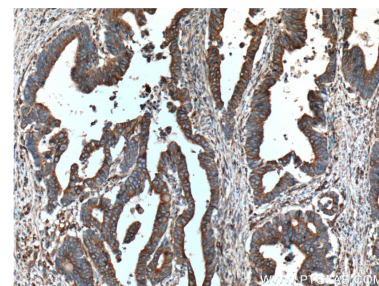
## Selected Validation Data



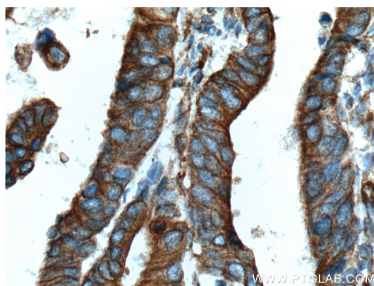
Various lysates were subjected to SDS PAGE followed by western blot with 66378-1-Ig (Occludin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



WB result of Occludin antibody (66378-1-Ig; 1:600; incubated at room temperature for 1.5 hours) with sh-Control and sh-Occludin transfected Jurkat cells.



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66378-1-Ig (Occludin antibody) at dilution of 1:400 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 66378-1-Ig (Occludin antibody) at dilution of 1:400 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0)).