

For Research Use Only

Occludin Polyclonal antibody

Catalog Number: 27260-1-AP **611 Publications**



Basic Information

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|---|--|--|
| Catalog Number: 27260-1-AP | GenBank Accession Number: BC029886 | Purification Method: Antigen affinity purification |
| Size: 150ul, Concentration: 1300 ug/ml by Nanodrop; | GeneID (NCBI): 4950 | Recommended Dilutions: WB 1:5000-1:50000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate |
| Source: Rabbit | UNIPROT ID: Q16625 | IHC 1:1000-1:10000 |
| Isotype: IgG | Full Name: occludin | IF-Fro 1:50-1:500 |
| Immunogen Catalog Number: AG26173 | Calculated MW: 522 aa, 59 kDa | IF/ICC 1:500-1:2000 |
| | Observed MW: 59 kDa, 32 kDa, 23-25 kDa | |

Applications

| | |
|--|---|
| Tested Applications: WB, IHC, IF/ICC, IF-Fro, IP, ELISA | Positive Controls: WB : HUVEC cells, HepG2 cells, mouse kidney tissue, mouse liver tissue, rat liver tissue, mouse brain tissue, mouse colon tissue, rat brain tissue |
| Cited Applications: WB, IHC, IF, IP | IP : HUVEC cells, |
| Species Specificity: human, mouse, rat | IHC : human colon tissue, human breast cancer tissue, human kidney tissue |
| Cited Species: human, mouse, rat, pig, rabbit, canine, chicken, bovine, goat, duck | IF-Fro : mouse brain tissue, |
| Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 | IF/ICC : Caco-2 cells, MCF-7 cells |

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 |
|----------------|-----------|----------------------------|-------------|
| Susu Lin | 36169685 | Psychopharmacology (Berl) | IHC |
| Yuan-Wei Zhang | 36196151 | J Orthop Translat | WB,IHC |
| Jianping Li | 36240652 | Biochem Biophys Res Commun | WB |

Storage

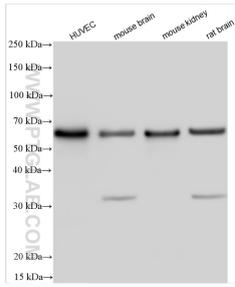
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

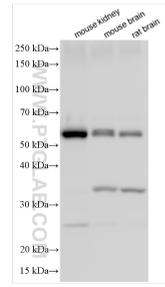
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

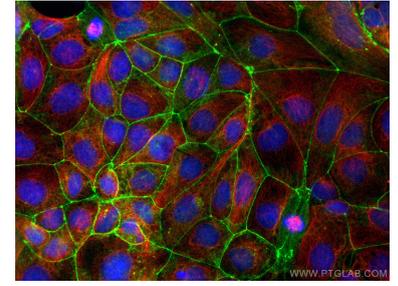
Selected Validation Data



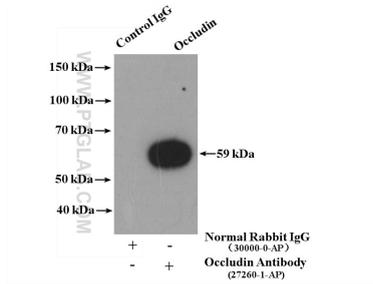
Various lysates were subjected to SDS PAGE followed by western blot with 27260-1-AP (Occludin antibody) at dilution of 1:25000 incubated at room temperature for 1.5 hours.



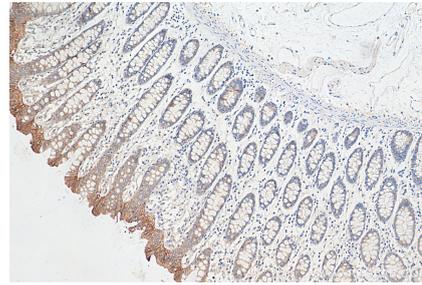
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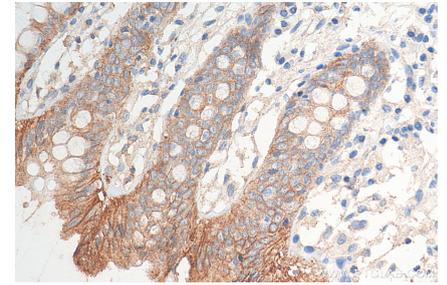
Immunofluorescent analysis of (4% PFA) fixed Caco-2 cells using Occludin antibody (27260-1-AP) at dilution of 1:1000 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), Alpha Tubulin antibody (66031-1-Ig, Clone: 1E4C11, red).



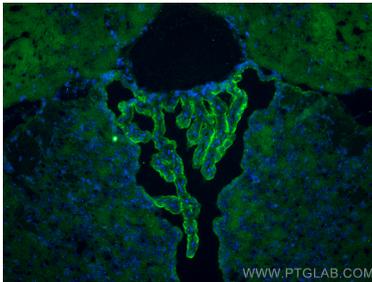
IP result of anti-Occludin (IP:27260-1-AP, 4ug; Detection:27260-1-AP 1:300) with HUVEC cells lysate 3600 ug.



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 27260-1-AP (Occludin antibody) at dilution of 1:8000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 27260-1-AP (Occludin antibody) at dilution of 1:8000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed frozen OCT-embedded mouse brain tissue using Occludin antibody (27260-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2).