

# Anti-Occludin Antibody

Catalog # ABO12740

## Product Information

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|--------------------------|---------------------------------------------------------------------------------------------|
| <b>Application</b>       | WB, IHC-P                                                                                   |
| <b>Primary Accession</b> | <a href="#">Q16625</a>                                                                      |
| <b>Host</b>              | Rabbit                                                                                      |
| <b>Reactivity</b>        | Human                                                                                       |
| <b>Clonality</b>         | Polyclonal                                                                                  |
| <b>Format</b>            | Lyophilized                                                                                 |
| <b>Description</b>       | Rabbit IgG polyclonal antibody for Occludin(OCN) detection. Tested with WB, IHC-P in Human. |
| <b>Reconstitution</b>    | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                        |

## Additional Information

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|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene ID</b>                  | 100506658                                                                                                                                                              |
| <b>Other Names</b>              | Occludin, OCLN                                                                                                                                                         |
| <b>Calculated MW</b>            | 59144                                                                                                                                                                  |
| <b>Application Details</b>      | Immunohistochemistry(Paraffin-embedded Section), 0.5-1 $\mu$ g/ml, Human, By Heat<br>Western blot, 0.1-0.5 $\mu$ g/ml, Human                                           |
| <b>Subcellular Localization</b> | Membrane; Multi-pass membrane protein. Cell junction, tight junction.                                                                                                  |
| <b>Tissue Specificity</b>       | Localized at tight junctions of both epithelial and endothelial cells. Highly expressed in kidney. Not detected in testis.                                             |
| <b>Source</b>                   | Eukaryota                                                                                                                                                              |
| <b>Protein Name</b>             | Occludin                                                                                                                                                               |
| <b>Contents</b>                 | Each vial contains 4mg Trehalose, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                       |
| <b>Immunogen</b>                | E.coli-derived human Occludin recombinant protein (Position: N373-T522). Human Occludin shares 89% amino acid (aa) sequence identity with both mouse and rat Occludin. |
| <b>Purification</b>             | Immunogen affinity purified.                                                                                                                                           |
| <b>Cross Reactivity</b>         | No cross reactivity with other proteins                                                                                                                                |

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|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>               | At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing. |
| <b>Sequence Similarities</b> | Belongs to the ELL/occludin family.                                                                                                                                                |

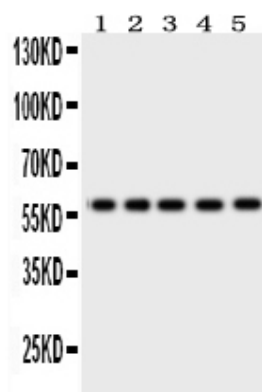
## Protein Information

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|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Name</b>              | OCLN                                                                                                                                                                                         |
| <b>Function</b>          | 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. |
| <b>Cellular Location</b> | Cell membrane; Multi-pass membrane protein. Cell junction, tight junction                                                                                                                    |
| <b>Tissue Location</b>   | Localized at tight junctions of both epithelial and endothelial cells. Highly expressed in kidney. Not detected in testis                                                                    |

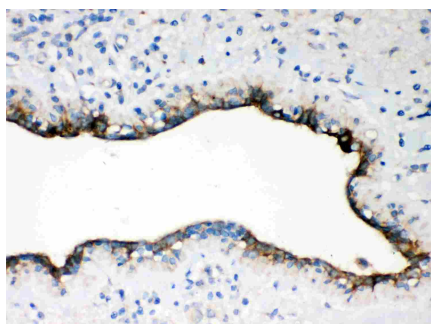
## Background

Occludin is an integral membrane protein that is located at tight junctions. It is a member of a family of proteins containing the highly conserved Marvel domain, which contains 4 transmembrane-helix regions. This gene is mapped to 5q13.2. Occludin regulates TGF-beta receptor type I localization for efficient TGF-beta-dependent dissolution of tight junctions during epithelial-mesenchymal transitions. Human Occludin is an essential hepatitis C virus (HCV) cell entry factor that is able to render murine cells infectable with HCV glycoproteins. It has been found that occludin is involved in cell migration and functions to recruit active PI3 kinase to the leading edge, resulting in RAC1 activation and formation of lamellipodia.

## Images



Anti- Occludin antibody, ABO12740, Western blotting  
 All lanes: Anti Occludin (ABO12740) at 0.5ug/ml  
 Lane 1: SW620 Whole Cell Lysate at 40ug  
 Lane 2: COLO320 Whole Cell Lysate at 40ug  
 Lane 3: A549 Whole Cell Lysate at 40ug  
 Lane 4: 293T Whole Cell Lysate at 40ug  
 Lane 5: U87 Whole Cell Lysate at 40ug  
 Predicted bind size: 59KD  
 Observed bind size: 59KD



Anti- Occludin antibody, ABO12740, IHC(P)  
 IHC(P): Human Mammary Cancer Tissue