

## Occludin (Marker of Early Blood Brain Barrier Damage) Antibody

Mouse Monoclonal Antibody [Clone MSVA-415M]

Catalog No	Format	Size
100506658-MSM29-P0	Purified Ab with BSA and Azide	20 ug
100506658-MSM29-P1	Purified Ab with BSA and Azide	100 ug

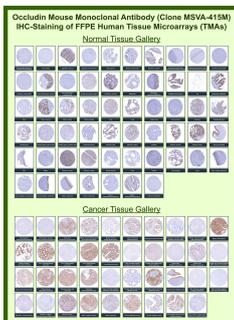
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1:100-1:200	Manual Protocol: Freshly cut sections should be used (less than 10 days between cutting and staining). Heat-induced antigen retrieval for 5 minutes in an autoclave at 121°C in pH 7.8 Target Retrieval Solution buffer. Apply the antibody at a dilution of 1:150 at 37°C for 60 minutes. Visualization of bound antibody by the EnVision Kit (Dako, Agilent) according to the manufacturer's directions.

### Product Details

<b>Clone</b>	MSVA-415M
<b>Immunogen</b>	Recombinant fragment of human Occludin protein (around aa 282-415) (exact sequence is proprietary)
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype / Light Chain</b>	IgG1 / Kappa
<b>Mol. Weight of Antigen</b>	60-82kDa
<b>Cellular Localization</b>	Cell junction, Cell membrane, Tight junction
<b>Species Reactivity</b>	Human
<b>Positive Control</b>	Colon: A strong membranous occludin staining of epithelial cells should be seen with a particularly strong staining at the apical/luminal membranes.

\*Optimal dilution for a specific application should be determined.

### Product Images for Occludin (Marker of Early Blood Brain Barrier Damage) Antibody



Occludin Mouse Monoclonal Antibody (MSVA-415M) tested on many normal and cancer tissues. The immunohistochemistry staining in these tissues aligns with the expression data in Human Protein Atlas.

### **Specificity & Comments**

Occludin is a tetraspan integral membrane protein in epithelial and endothelial tight junction (TJ) structures that can contain two extracellular loops. The protein exists in a variety of phosphorylated forms. Phosphorylation is involved in regulating both the localization and the function of Occludin. Expression of Occludin is upregulated by polyunsaturated fatty acids, increasing trans-endothelial cell resistance and reducing cellular permeability to large molecules. The level of Occludin varies greatly depending on tissue; in brain tissue, Occludin is highly expressed at cell-cell contact sites. Non-neural tissues show lower expression and discontinuous distribution. Occludin is a tight junction protein that is a key structural component of the blood-brain barrier (BBB). Degradation of Occludin is frequently seen in ischemic stroke and contributes to BBB disruption.

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### **Limitations and Warranty**

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

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### **Supplied As**

Ab purified from Bioreactor Concentrate by Protein G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide.

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### **Storage and Stability**

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

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### **Research Areas**

BBB VCAM-1 Signaling, Transcription Factors

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