

## 36-2007: Anti-Occludin (Marker of Early Blood Brain Barrier Damage) Monoclonal Antibody (Clone: OCLN/2181)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	OCLN/2181
<b>Application :</b>	IHC,WB
<b>Reactivity :</b>	Human
<b>Gene :</b>	OCLN
<b>Gene ID :</b>	100506658
<b>Uniprot ID :</b>	Q16625
<b>Alternative Name :</b>	BLCPMG; Occludin; OCLN; Phosphatase 1 regulatory subunit 115; PTORCH1; Tight junction protein occludin
<b>Isotype :</b>	Mouse IgG1, kappa
<b>Immunogen Information :</b>	Recombinant fragment of human Occludin protein (around aa 282-415) (exact sequence is proprietary)

### Description

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.

### Product Info

<b>Amount :</b>	20 µg / 100 µg
<b>Content :</b>	200µg/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
<b>Storage condition :</b>	Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months.

### Application Note

Western Blot (1-2ug/ml);Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

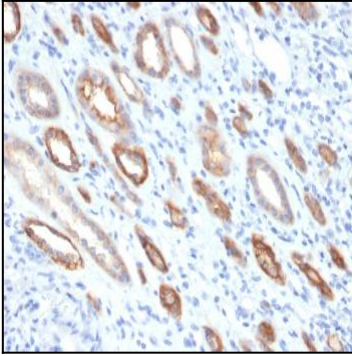


Fig.1: Formalin-fixed, paraffin-embedded human Renal Cell Carcinoma stained with Occludin Mouse Monoclonal Antibody (OCLN/2181).

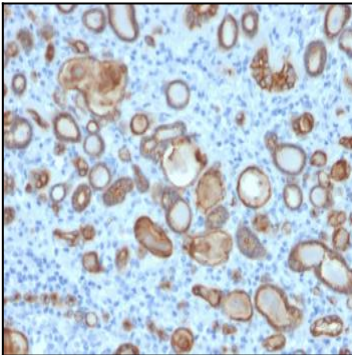


Fig. 2: Formalin-fixed, paraffin-embedded human thyroid carcinoma stained with Occludin Mouse Monoclonal Antibody (OCLN/2181).

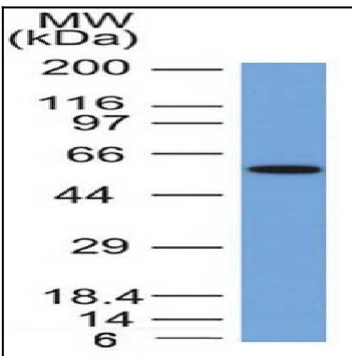


Fig. 3: Western Blot Analysis of MCF-7 cell lysate with Occludin Mouse Monoclonal Antibody (OCLN/2181).

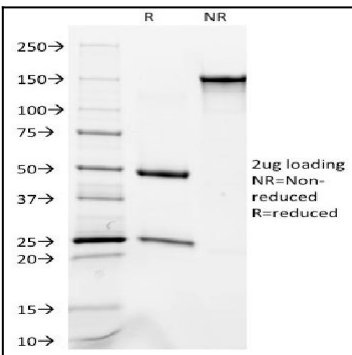


Fig. 4: SDS-PAGE Analysis Purified Occludin Mouse Monoclonal Antibody (OCLN/2181). Confirmation of Purity and Integrity of Antibody.