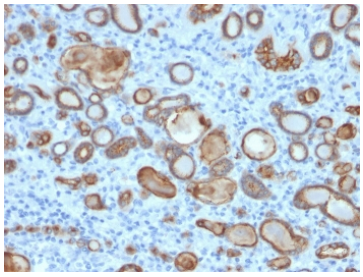
Occludin Antibody [clone OCLN/2181] (V7646)

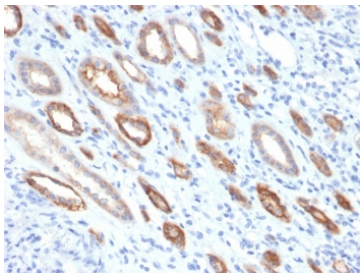
Catalog No.	Formulation	Size
V7646-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V7646-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V7646SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Bulk quote request

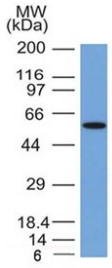
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Monoclonal (mouse origin)
Isotype	Mouse IgG1, kappa
Clone Name	OCLN/2181
Purity	Protein G affinity chromatography
UniProt	Q16625
Localization	Cell surface, cytoplasmic
Applications	Western Blot : 1-2ug/ml Immunohistochemistry (FFPE) : 1-2ug/ml
Limitations	This Occludin antibody is available for research use only.



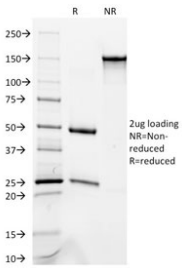
IHC staining of FFPE human thyroid carinoma with Occludin antibody (clone OCLN/2181). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



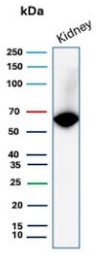
IHC staining of FFPE human renal cell carinoma with Occludin antibody (clone OCLN/2181). HIER: boil tissue sections in pH 9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



Western blot testing of human MCF7 cell lysate with Occludin antibody. Predicted molecular weight ~59 kDa.



SDS-PAGE analysis of purified, BSA-free Occludin antibody (clone OCLN/2181) as confirmation of integrity and purity.



Western blot testing of human kidney tissue lysate with Occludin antibody. Predicted molecular weight ~59 kDa.

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. Up-regulation of epithelial Occludin may play a role in enhancing paracellular permeability and be related to the damage to the tight junction.

Application Notes

Optimal dilution of the Occludin antibody should be determined by the researcher.

Immunogen

A recombinant human partial protein (amino acids 282-415) was used as the immunogen for the Occludin antibody.

Storage

Store the Occludin antibody at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).