

Code No. 10345

**Anti-Rat  
Occludin (1A8) Mouse IgM MoAb**Volume : 50 µg

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**Introduction** : Occludin is an approximately 60kDa-integral membrane protein localizing at Tight-Junction, and composed of short N-terminal cytosolic domain, four transmembrane domains and long C-terminal cytosolic domain. It is reported that Occludin has no homology to claudin family and forms strand by copolymerization with claudin family proteins. It is considered that Tight-Junction plays an important role in maintenance of cellular polarity (fence function) and in regulating the passage of ions and small molecular through the paracellular pathway (barrier function).

**Antigen** : Recombinant Rat Occludin

**Source** : Mouse-Mouse hybridoma  
(NS-1 myeloma X Mouse Lymphocytes)

**Clone** : 1A8                      **Subclass** : IgM

**Purification** : Affinity purified with anti-mouse IgM

**Form** : Lyophilized product from PBS containing 1 % BSA and 0.05 % NaN<sub>3</sub>

**How to use** : 1.0 mL deionized water will be added to the product, then its concentration comes to 50 µg/mL

**Stability** : Lyophilized product, 5 years at 2 - 8 °C  
: Solution, 2 years at -20 °C

**Application** : This antibody can be used for immunohistochemistry with formalin fixed paraffin embedded tissues after autoclave treatment, by several techniques such as Avidin Biotin Complex (ABC) Method. The optimal concentration is 0.5 µg/mL, however, the concentration should be optimized by each laboratory.  
: This antibody can be used for western blotting in concentration of 0.1 - 0.5 µg/mL

**Specificity** : Cross-reacts with human and dog

**Reference** : 1. Tobioka H, Isomura H, Kokai Y, Sawada N. Polarized distribution of carcinoembryonic antigen is associated with a tight junction molecule in human colorectal adenocarcinoma. *J Pathol.* 2002 198(2):207-12.  
2. Tobioka H, Isomura H, Kokai Y, Tokunaga Y, Yamaguchi J, Sawada N. Occludin expression decreases with the progression of human endometrial carcinoma. *Hum Pathol.* 2004 35(2):159-64.  
3. Tokunaga Y, Tobioka H, Isomura H, Kokai Y, Sawada N. Expression of occludin in human rectal carcinoid tumours as a possible marker for glandular differentiation. *HISTOPATHOLOGY.* 2004 44(3):247-50.  
4. Tobioka H, Tokunaga Y, Isomura H, Kokai Y, Yamaguchi J, Sawada N. Expression of occludin, a tight junction-associated protein, in human lung carcinomas. *Virchows Arch.* 2004 Nov;445(5):472-6.

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*For research use only, not for use in diagnostic procedures.*