

Occludin Antibody



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For Research Use Only, Not for Use in Diagnostic Procedures.

Storage Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody. Occludin Antibody detects endogenous levels of total occludin protein. Dog Species predicted to react based on 100% sequence nomology Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human occludin protein. Tight junctions, or zona occludens, form a continuous barrier to fluids across the epithelium and endothelium. They function in regulation of paracellular permeability and in the maintenance of cell polarity, blocking the movement of transmembrane proteins between the apical and the basolateral cell surfaces (reviewed in 1). Tight junctions are composed of claudin and occludin transmembrane proteins, which join the junctions to the cytoskeleton (1,2). Occludin is thought to be important in the assembly and maintenance of tight junctions. Differential phosphorylation of occludin a various residues may regulate its interaction with other tight junction proteins such as ZO-1 (3). VEG-induced phosphorylation of occludin regulates tight junction sublity and vascular permeability (4). Expression of occludin as well as claudin 1 is required for infection of liver cells by hepatitis C virus (HCV) (5). 1. Shin, K. et al. (2006) Annu Rev Cell Dev Biol 22, 207-35. 2. Oliveira, S.S. and Morgado-Diaz, J.A. (2007) Cell Mol Life Sci 64, 17-28. 3. Rao, R. (2009) Ann N Y Acad Sci 1155, 62-8. 4. Murakami, T. et al. (2009) J Biol Chem 284, 21036-46. 5. Ploss, A. et al. (2009) Nature 457, 882-6. Species Reactivity Species reactivity is determined by testing in at least one approved application (e.g., western blot). Mestern Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. W: Western Blotting Cross-Reactivity Key	Applications: W	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 65	Source/Isotype: Rabbit	UniProt ID: #Q16625	Entrez-Gene Id: 100506658
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