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Claudin-1 (D3H7C) Rabbit mAb



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Applications: Reactivity: Sensitivity: MW (kDa): Source/Isotype: **UniProt ID:** Entrez-Gene Id: WB, IF-IC Н Endogenous 20 Rabbit IgG #O95832 9076 **Product Usage** Application Dilution Information 1:1000 Western Blotting Immunofluorescence (Immunocytochemistry) 1:200 - 1:800 Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than **Storage** 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody. Claudin-1 (D3H7C) Rabbit mAb recognizes endogenous levels of total claudin-1 protein. In both claudin-1-Specificity / Sensitivity positive and claudin-1-negative cell lines, the antibody cross-reacts with a band of unknown origin, which migrates at approximately 120 kDa by SDS-PAGE electrophoresis. Source / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro194 of human claudin-1 protein. **Background** Tight junctions, or zonula 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. Tight junctions are composed of claudin and occludin proteins, which join the junctions to the cytoskeleton (1,2). The claudin family is composed of 23 integral membrane proteins, and their expression, which varies among tissue types, may determine both the strength and properties of the epithelial barrier. Alteration in claudin protein expression pattern is associated with several types of cancer (2,3). Claudin-1 is expressed primarily in keratinocytes (4) and normal mammary epithelial cells, but is absent or reduced in breast carcinomas and breast cancer cell lines (5,6). 1. Shin, K. et al. (2006) Annu Rev Cell Dev Biol 22, 207-35. **Background References** 2. Oliveira, S.S. and Morgado-Díaz, J.A. (2007) Cell Mol Life Sci 64, 17-28. 3. Hewitt, K.J. et al. (2006) BMC Cancer 6, 186. 4. Brandner, J.M. et al. (2002) Eur J Cell Biol 81, 253-63. 5. Krämer, F. et al. (2000) Hum Genet 107, 249-56. 6. Swisshelm, K. et al. (1999) Gene 226, 285-95.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western 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.

Applications Key

WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dq: doq Pq: piq Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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