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## Claudin-1 (D5H1D) XP® Rabbit



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

Applications: WB, IP, IHC-P	Reactivity: H Dg	Sensitivity: Endogenous	<b>MW (kDa):</b> 20	Source/Isotype: Rabbit IgG	UniProt ID: #O95832	Entrez-Gene Id: 9076	
Product Usage Information	Ар	plication		Dilution			
	We	stern Blotting		1:1000			
	Imr	nunoprecipitation		1:200			
	Imr	nunohistochemistry	(Paraffin)		1:125 - 1:	500	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.					
Specificity / Sensi	i <b>tivity</b> Clau	ıdin-1 (D5H1D) XP <sup>®</sup>	Rabbit mAb recognizes endogenous levels of total claudin-1 protein.				
Source / Purificati		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human claudin-1 protein.					
Background	endd bloc Tigh (1,2) amo clau prim	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).					
Background Refe	2. O 3. H 4. B 5. K	hin, K. et al. (2006) liveira, S.S. and Mo ewitt, K.J. et al. (200 randner, J.M. et al. ( rämer, F. et al. (2000 wisshelm, K. et al. (	rgado-Díaz, J.A. 06) BMC Cancer (2002) Eur J Cell 0) Hum Genet 10	(2007) Cell Mol Life Sci 64, 17-28. 6, 186. Biol 81, 253-63. 07, 249-56.			

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** 

 $\textbf{WB:} \ Western \ Blotting \ \textbf{IP:} \ Immunoprecipitation \ \textbf{IHC-P:} \ Immunohistochemistry \ (Paraffin)$ 

**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 Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

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

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