**BACKGROUND**

The claudin superfamily consists of many structurally related proteins in humans. These proteins are important structural and functional components of tight junctions in paracellular transport. Claudins are located in both epithelial and endothelial cells in all tight junction-bearing tissues. Three classes of proteins are known to localize to tight junctions, including the claudins, Occludin and junction adhesion molecules. Claudins, which consist of four transmembrane domains and two extracellular loops, make up tight junction strands. Claudin expression is often highly restricted to specific regions of different tissues and may have an important role in transcellular transport through tight junctions. claudin-10 is a 228 amino acid multi-pass membrane protein that belongs to the claudin family and plays an important role in cell-adhesion activity and tight junction-specific events.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: CLDN10 (human) mapping to 13q32.1; Cldn10 (mouse) mapping to 14 E4.

**SOURCE**

claudin-10 (H-58) is a rabbit polyclonal antibody raised against amino acids 171-228 mapping at the C-terminus of claudin-10 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

**STORAGE**

Store at 4° C. **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**APPLICATIONS**

claudin-10 (H-58) is recommended for detection of claudin-10 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

claudin-10 (H-58) is also recommended for detection of claudin-10 in additional species, including equine, canine, bovine and porcine.

Suitable for use as control antibody for claudin-10 siRNA (h): sc-43052, claudin-10 siRNA (m): sc-43053, claudin-10 shRNA Plasmid (h): sc-43052-SH, claudin-10 shRNA Plasmid (m): sc-43053-SH, claudin-10 shRNA (h) Lentiviral Particles: sc-43052-V and claudin-10 shRNA (m) Lentiviral Particles: sc-43053-V.

Molecular Weight of claudin-10 isoforms: 23/19 kDa.

Positive Controls: claudin-10 (m2): 293T Lysate: sc-119283.

**DATA**

![Western blot analysis of claudin-10 expression in non-transfected: sc-117752 (A) and mouse claudin-10 transfected: sc-119283 (B) 293T whole cell lysates.](image)

**SELECT PRODUCT CITATIONS**


**MONOS Satisfaction Guaranteed**

Try **claudin-10 (G-12): sc-373946** or **claudin-10 (H-10): sc-373700**, our highly recommended monoclonal alternatives to claudin-10 (H-58).