

## PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



### Claudin-4 (P192) Peptide

Cat No.: BS1068P

#### 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 molecule (JAM). Claudins, which consist of four transmembrane domains and two extracellular loops, make up tight junction strands. Claudin expression is highly restricted to specific regions of different tissues and variations of Claudin expression may have an important role in transcellular transport through tight junctions. In rat liver, claudin-3 is uniformly expressed, whereas in the pancreas, claudin-3 is expressed in junctions of the duct epithelia and junctions of acinar cells. Claudin-3 binds the peptide toxin Clostridium perfringens enterotoxin (CPE) at the cell surface via the second extracellular loop of claudin-3. The gene encoding human claudin-3 maps to chromosome 7q11.23.

#### Swiss-Prot

O14493

#### Applications

Blocking

#### Specificity

This peptide can be used with studies using BS1068 Claudin-4 (P192) pAb.

#### Purification & Purity

Synthetic peptide Claudin-4 (P192). (Note: the amino acid sequence is proprietary). The purity is > 98%.

#### Product

1 mg/ml in DI water.

#### Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

#### Research Use

For research use only, not for use in diagnostic procedure.