

Product datasheet for **AP21132PU-S**

Claudin 7 (CLDN7) Rabbit Polyclonal Antibody

Product data:

| | |
|-------------------------|--|
| Product Type: | Primary Antibodies |
| Applications: | IHC, WB |
| Recommended Dilution: | Western blot: 1/500 - 1/1000. Immunohistochemistry on paraffin sections 1/50 - 1/200. |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Specificity: | This antibody detects endogenous levels of Claudin-7 protein. (region surrounding Ser204) |
| Formulation: | Phosphate buffered saline (PBS), pH 7.2. State: Aff - Purified State: Liquid purified Ig fraction Preservative: 0.05% sodium azide |
| Concentration: | 1.0 mg/ml |
| Purification: | Affinity chromatography (> 95% (by SDS-PAGE) |
| Conjugation: | Unconjugated |
| Storage: | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. |
| Stability: | Shelf life: one year from despatch. |
| Predicted Protein Size: | ~ 23, 32 kDa |
| Gene Name: | claudin 7 |
| Database Link: | Entrez Gene 53624 Mouse Entrez Gene 65132 Rat Entrez Gene 1366 Human O95471 |



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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 may have an important role in transcellular transport through tight junctions. mRNA studies indicate that claudin-7 is specifically expressed in mouse lung and kidney, but not in heart, brain, spleen, liver, skeletal muscle or testis. The gene encoding human claudin-7 maps to chromosome 17p13.

Synonyms:

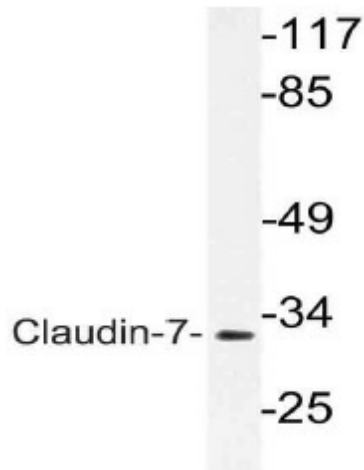
CLDN-7, CEPTRL2, CPETRL2

Protein Families:

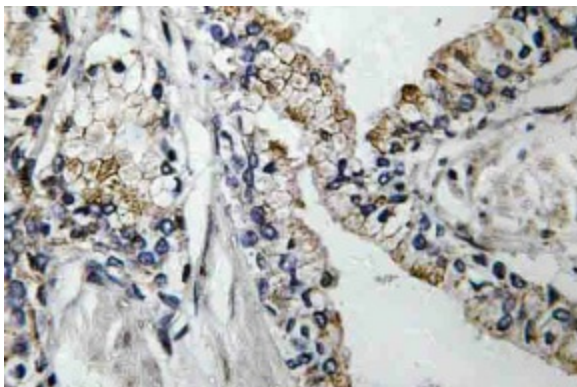
Transmembrane

Protein Pathways:

Cell adhesion molecules (CAMs), Leukocyte transendothelial migration, Tight junction

Product images:


Western blot (WB) analysis of VDR antibody (Cat.-No.: [AP21132PU-N]) in extracts from rat liver cells.



Immunohistochemistry (IHC) analyzes of VDR antibody (Cat.-No.: [AP21132PU-N]) in paraffin-embedded human prostate carcinoma tissue.