

# Product Name: Claudin-7 (phospho Tyr210) Rabbit Polyclonal Antibody Catalog #: APRab04475

For research use only.

#### **Summary**

**Description** Rabbit polyclonal Antibody

Host Rabbit
Application WB,ELISA

Reactivity Human,Mouse,Rat
Conjugation Unconjugated
Modification Phosphorylated

**Isotype** IgG

ClonalityPolyclonalFormLiquidConcentration1mg/ml

**Storage** Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.

**Shipping** Ice bags

Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type **Buffer** 

preservative N.

**Purification** Affinity purification

## **Application**

**Dilution Ratio** WB 1:500-1:2000,ELISA 1:5000-1:10000

Molecular Weight 32kDa

# **Antigen Information**

Gene Name CLDN7

Alternative Names CLDN7; CEPTRL2; CPETRL2; Claudin-7; CLDN-7

 Gene ID
 1366.0

 SwissProt ID
 O95471

The antiserum was produced against synthesized peptide derived from human Claudin 7 Immunogen

around the phosphorylation site of Tyr210. AA range:162-211

## **Background**

This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction

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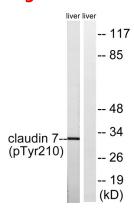


strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. Differential expression of this gene has been observed in different types of malignancies, including breast cancer, ovarian cancer, hepatocellular carcinomas, urinary tumors, prostate cancer, lung cancer, head and neck cancers, thyroid carcinomas, etc.. Alternatively spliced transcript variants encoding different isoforms have been found.[provided by RefSeq, May 2010],function:Plays a major role in tight junction-specific obliteration of the intercellular space.,induction:By androgens.,similarity:Belongs to the claudin family.,subunit:Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3.,tissue specificity:Expressed in kidney, lung and prostate. Isoform 1 seems to be predominant, except in some normal prostate samples, where isoform 2 is the major form. Down-regulated in breast cancers, including ductal carcinoma in situ (DCIS), lobular carcinoma in situ (LCIS) and invasive ductal carcinoma (IDC) (at protein level), as well as in several cancer cell lines. Loss of expression correlates with histological grade, occurring predominantly in high-grade lesions.,

#### **Research Area**

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

# **Image Data**



Western blot analysis of lysates from rat liver, using Claudin 7 (Phospho-Tyr210) Antibody. The lane on the right is blocked with the phospho peptide.

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