

Claudin-7 (phospho Tyr210) Polyclonal Antibody

Catalog No: YP0466

Reactivity: Human; Mouse; Rat

Applications: WB;ELISA

Target: Claudin 7

Fields: >>Cell adhesion molecules;>>Tight junction;>>Leukocyte transendothelial

migration;>>Pathogenic Escherichia coli infection;>>Hepatitis C

Gene Name: CLDN7

Protein Name: Claudin-7

O95471

Q9Z261

Human Gene Id: 1366

Human Swiss Prot

No:

Mouse Gene Id: 53624

Mouse Swiss Prot

No:

Rat Gene Id: 65132

Rat Swiss Prot No: Q9Z1L1

Immunogen : The antiserum was produced against synthesized peptide derived from human

Claudin 7 around the phosphorylation site of Tyr210. AA range:162-211

Specificity: Phospho-Claudin-7 (Y210) Polyclonal Antibody detects endogenous levels of

Claudin-7 protein only when phosphorylated at Y210.

Formulation: Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

Dilution: WB 1:500 - 1:2000. ELISA: 1:5000. Not yet tested in other applications.

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Purification: The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

Concentration: 1 mg/ml

Storage Stability: -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 32kD

Cell Pathway: Cell adhesion molecules (CAMs); Tight junction; Leukocyte transendothelial

migration;

Background : This gene encodes a member of the claudin family. Claudins are integral

membrane proteins and components of tight junction 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: 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.,

Subcellular Location:

Cell membrane ; Multi-pass membrane protein . Basolateral cell membrane . Cell

junction, tight junction . Co-localizes with EPCAM at the basolateral cell

membrane and tight junction. .

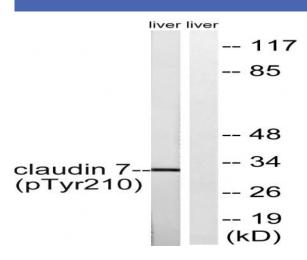
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Products Images



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.