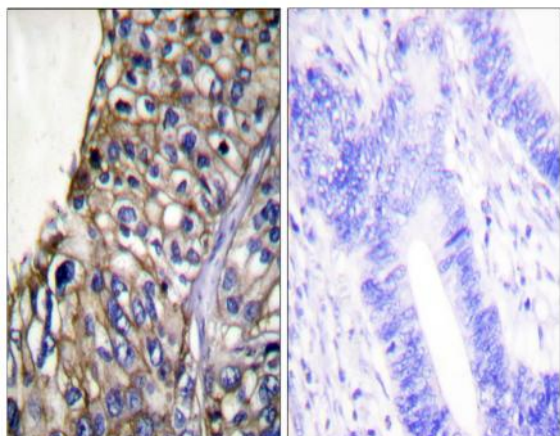


## Claudin-7 Polyclonal Antibody

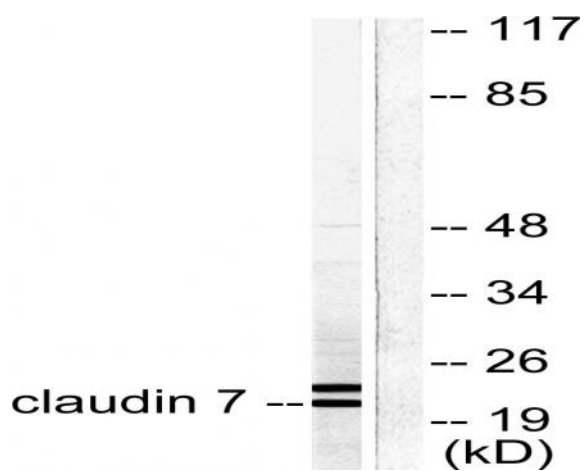
<b>Catalog No :</b>	YT0956
<b>Reactivity :</b>	Human;Mouse;Rat
<b>Applications :</b>	WB;IHC;IF;ELISA
<b>Target :</b>	Claudin 7
<b>Fields :</b>	>>Cell adhesion molecules;>>Tight junction;>>Leukocyte transendothelial migration;>>Pathogenic Escherichia coli infection;>>Hepatitis C
<b>Gene Name :</b>	CLDN7
<b>Protein Name :</b>	Claudin-7
<b>Human Gene Id :</b>	1366
<b>Human Swiss Prot No :</b>	O95471
<b>Mouse Gene Id :</b>	53624
<b>Mouse Swiss Prot No :</b>	Q9Z261
<b>Rat Gene Id :</b>	65132
<b>Rat Swiss Prot No :</b>	Q9Z1L1
<b>Immunogen :</b>	The antiserum was produced against synthesized peptide derived from human Claudin 7. AA range:162-211
<b>Specificity :</b>	Claudin-7 Polyclonal Antibody detects endogenous levels of Claudin-7 protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Polyclonal, Rabbit,IgG
<b>Dilution :</b>	WB 1:500 - 1:2000. IHC 1:100 - 1:300. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other applications.

<b>Purification :</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Concentration :</b>	1 mg/ml
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>Observed Band :</b>	22kD
<b>Cell Pathway :</b>	Cell adhesion molecules (CAMs);Tight junction;Leukocyte transendothelial migration;
<b>Background :</b>	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],
<b>Function :</b>	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.,
<b>Subcellular Location :</b>	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. .
<b>Expression :</b>	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.

## Products Images



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma tissue, using Claudin 7 Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of lysates from 293 cells, using Claudin 7 Antibody. The lane on the right is blocked with the synthesized peptide.