

# **Claudin 23 Polyclonal Antibody**

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP55268

### **Specification**

# **Claudin 23 Polyclonal Antibody - Product Information**

Application IHC-P, IHC-F, IF, ICC, E

Primary Accession Q96B33

Reactivity
Host
Clonality
Calculated MW
Physical State

Rat, Pig, Dog, Bovine
Rabbit
Polyclonal
32 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human Claudin 23

Epitope Specificity 25-81/292

Isotype
Purity
affinity purified by Protein A

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

SUBCELLULAR LOCATION Proclin300 and 50% Glycerol.
Integral membrane protein. Tight

junctions

SIMILARITY Belongs to the claudin family.

Important Note

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

#### **Background Descriptions**

The claudin superfamily consists of structurally related proteins that are important structural and functional components of tight junctions. Claudin-23, also known as CLDN23 or CLDNL, is a 292 amino acid multi-pass membrane protein that localizes to cell junctions and belongs to the claudin family. Expressed in stomach and placenta, as well as in germinal center B-cells, claudin-23 is thought to exhibit calcium-dependent cell-adhesion activity through which it plays an essential role in tight junction-specific obliteration of the intercellular space. Human claudin-23 shares 80% sequence similarity with its mouse counterpart, suggesting a conserved role between species. Overexpression of claudin-23 is associated with colon tumors, implicating claudin-23 as a possible metastasis factor.

### Claudin 23 Polyclonal Antibody - Additional Information

**Gene ID 137075** 

Other Names Claudin-23, CLDN23

#### **Dilution**

<span class ="dilution\_IHC-P">IHC-P $\sim$ N/A</span><br \><span class ="dilution\_IHC-F">IHC-F $\sim$ N/A</span><br \><span class</pre>



="dilution\_IF">IF $\sim$ 1:50 $\sim$ 200</span><br \><span class ="dilution\_ICC">ICC $\sim$ N/A</span><br \><span class ="dilution\_E">E $\sim$ N/A</span>

# **Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## **Claudin 23 Polyclonal Antibody - Protein Information**

#### Name CLDN23

#### **Function**

Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.

# **Cellular Location**

Cell junction, tight junction. Cell membrane; Multi-pass membrane protein

#### **Tissue Location**

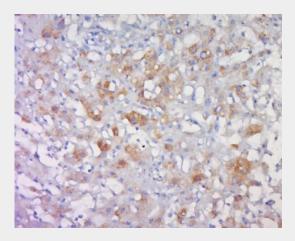
Expressed in germinal center B-cells, placenta, stomach as well as in colon tumor.

## Claudin 23 Polyclonal Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

## Claudin 23 Polyclonal Antibody - Images



Tissue/cell: human liver cancer; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer ( 0.01M, pH 6.0 ), Boiling bathing for 15min; Block endogenous





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peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum, C-0005) at 37°C for 20 min;

Incubation: Anti-Claudin 23 Polyclonal Antibody, Unconjugated(bs-13746R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining