

For Research Use Only

# Claudin 3 Polyclonal antibody

Catalog Number: 16456-1-AP

44 Publications



## Basic Information

### Catalog Number:

16456-1-AP

### Size:

150ul, Concentration: 600 ug/ml by Nanodrop and 300 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG9411

### GenBank Accession Number:

BC016056

### GeneID (NCBI):

1365

### UNIPROT ID:

O15551

### Full Name:

claudin 3

### Calculated MW:

220 aa, 23 kDa

### Observed MW:

20-24 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate  
IHC 1:50-1:500

## Applications

### Tested Applications:

IP, IHC, ELISA

### Cited Applications:

IHC, IF

### Species Specificity:

human, mouse, rat

### Cited Species:

human, mouse, rat, pig, sheep

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

### Positive Controls:

IP: mouse large intestine tissue,

IHC: human breast cancer tissue, mouse colon tissue

## Background Information

Claudins are a family of proteins that are the most important components of the tight junctions, where they establish the paracellular barrier that controls the flow of molecules in the intercellular space between the cells of an epithelium. 23 claudins have been identified. They are small (20-27 kilodalton (kDa)) proteins with very similar structure. They have four transmembrane domains, with the N-terminus and the C-terminus in the cytoplasm.

## Notable Publications

Author	Pubmed ID	Journal	Application
Xin Ran	36040330	J Agric Food Chem	
Jie Cai	31520958	Environ Int	IHC
Yuya Tsurudome	36224445	Mol Biol Rep	

## Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

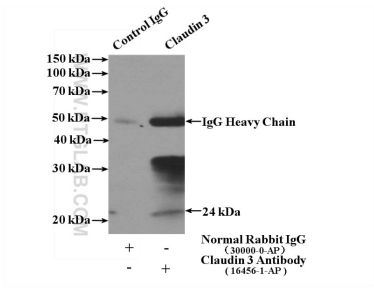
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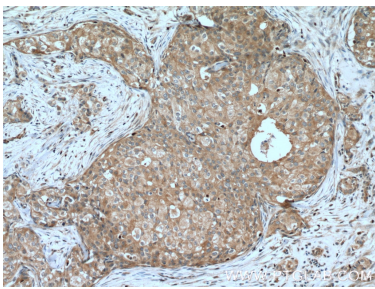
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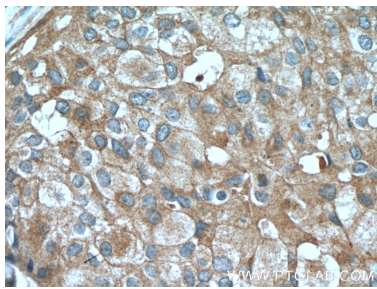
Selected Validation Data



IP result of anti-Claudin 3 (IP:16456-1-AP, 4ug; Detection:16456-1-AP 1:300) with mouse large intestine tissue lysate 3200ug.



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16456-1-AP (Claudin 3 Antibody) at dilution of 1:200 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human breast cancer tissue slide using 16456-1-AP (Claudin 3 Antibody) at dilution of 1:200 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).