



# Claudin-2 Polyclonal Antibody

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                   |
|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Catalog No</b>         | BYab-16956                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Isotype</b>            | IgG                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Reactivity</b>         | Human;Mouse                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Applications</b>       | WB;IHC;IF;ELISA                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Gene Name</b>          | CLDN2                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Protein Name</b>       | Claudin-2                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Immunogen</b>          | The antiserum was produced against synthesized peptide derived from human Claudin 2. AA range:181-230                                                                                                                                                                                                                                                                                                             |
| <b>Specificity</b>        | Claudin-2 Polyclonal Antibody detects endogenous levels of Claudin-2 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>Purification</b>       | The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.                                                                                                                                                                                                                                                                                             |
| <b>Dilution</b>           | WB: 1/500 - 1/2000. IHC: 1/100 - 1/300. ELISA: 1/5000.. IF 1:50-200                                                                                                                                                                                                                                                                                                                                               |
| <b>Concentration</b>      | 1 mg/ml                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Purity</b>             | ≥90%                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage Stability</b>  | -20°C/1 year                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Synonyms</b>           | CLDN2; PSEC0059; SP82; Claudin-2; SP82                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Observed Band</b>      | 25kD                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Cell Pathway</b>       | Cell junction, tight junction . Cell membrane ; Multi-pass membrane protein .                                                                                                                                                                                                                                                                                                                                     |
| <b>Tissue Specificity</b> | Colon,Colon epithelium,Kidney,Skin,Teratocarcinoma,Thalamus,                                                                                                                                                                                                                                                                                                                                                      |
| <b>Function</b>           | function:Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.,similarity:Belongs to the claudin family.,subunit:Can form homo- and heteropolymers with other CLDN. Homopolymers interact with CLDN3, but not CLDN1, homopolymers. Directly interacts with TJP1/ZO-1, TJP2/ZO-2 and TJP3/ZO-3.,                              |
| <b>Background</b>         | This gene product belongs to the claudin protein family whose members have been identified as major integral membrane proteins localized exclusively at tight junctions. Claudins are expressed in an organ-specific manner and regulate tissue-specific physiologic properties of tight junctions. This protein is expressed in the intestine. Alternatively spliced transcript variants with different 5'apost; |

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untranslated region have been found for this gene.[provided by RefSeq, Jan 2010],

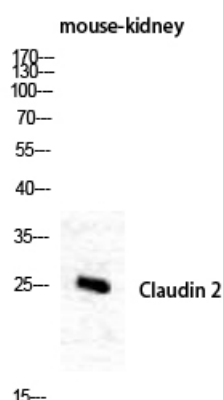
**matters needing attention**

Avoid repeated freezing and thawing!

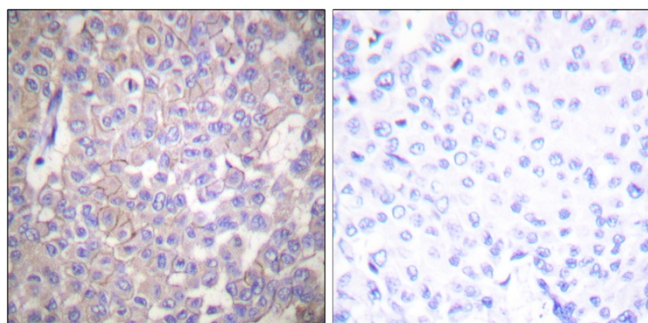
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Western Blot analysis of mouse-kidney cells using Claudin-2 Polyclonal Antibody diluted at 1:1000



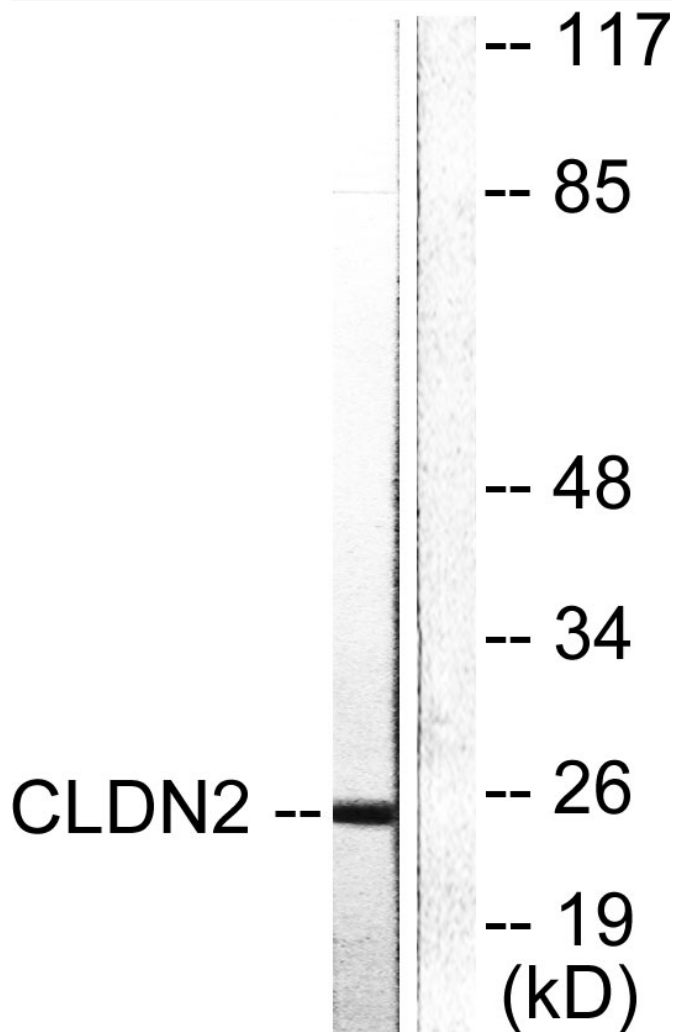
Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using Claudin 2 Antibody. The picture on the right is blocked with the synthesized peptide.

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Western blot analysis of lysates from NIH/3T3 cells, using Claudin 2 Antibody. The lane on the right is blocked with the synthesized peptide.