# Anti-Claudin 7/CLDN-7 antibody ab27487

**Product name**: Anti-Claudin 7/CLDN-7 antibody

**Description**: Rabbit polyclonal to Claudin 7/CLDN-7

**Host species**: Rabbit

**Tested applications**: Suitable for: ICC, IHC-P, IHC-Fr, ICC/IF, WB

**Species reactivity**: Reacts with: Mouse, Rat, Human

**Immunogen**: Synthetic peptide within Human Claudin 7/CLDN-7 aa 150 to the C-terminus (C terminal). The exact sequence is proprietary.

Database link: [O95471](https://www.uniprot.org/uniprot/O95471)

**Positive control**: Human colon carcinoma.

**General notes**: Previously labelled as Claudin 7.

## Properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Liquid</th>
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</table>

**Storage instructions**: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

**Storage buffer**: pH: 7.6

Preservative: 0.1% Sodium azide

Constituents: PBS, 1% BSA

**Purity**: Immunogen affinity purified

**Purification notes**: Ab27487 is affinity purified.

**Clonality**: Polyclonal

**Isotype**: IgG

## Applications

Our [Abpromise guarantee](https://www.abcam.com/abpromise) covers the use of ab27487 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
### Target

**Function**
Plays a major role in tight junction-specific obliteration of the intercellular space.

**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.

**Sequence similarities**
Belongs to the claudin family.

**Post-translational modifications**
Phosphorylated.

**Cellular localization**

### Application

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
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<tbody>
<tr>
<td>ICC</td>
<td></td>
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</tr>
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<td>IHC-P</td>
<td>⭐⭐⭐⭐⭐</td>
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<tr>
<td>ICC/IF</td>
<td></td>
<td>Use at an assay dependent concentration. PubMed: 21525338</td>
</tr>
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### Notes

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### Images

Ab27487, at a dilution of 1/200, staining Claudin 7/CLDN-7 in formalin fixed paraffin embedded human colon carcinoma tissue section by Immunohistochemistry.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 7/CLDN-7 antibody (ab27487)
ab27487 staining tissue sections of rat liver after oval cell activation. The sample was PFA fixed, permeabilized in 0.1% Triton X100 for 10 minutes and blocked with 2% serum, 2% BSA, 0.05% Tween 20 in PBS for 1 hour at room temperature. The primary antibody was diluted 1/100 and incubated for 12 hours at 4°C. A HRP conjugated donkey anti-rabbit was used as the secondary.

ab27487 staining rat oval cells by ICC. Cells were fixed in ice cold methanol for 15 minutes and blocked in 3% serum for 1 hour at 25°C prior to incubation with ab27487 (diluted 1/50 in 3% Goat serum, 2% BSA, 0.01% Tween20) for 16 hours at 4°C. The secondary antibody was a Cy3® conjugated donkey anti-rabbit, diluted 1/100.

**All lanes**: Anti-Claudin 7/CLDN-7 antibody (ab27487) at 1/100 dilution

**Lane 1**: Whole cell lysate of human Colon Adenocarcinoma epithelial cells C2BBE1 - Insoluble fraction (membrane)

**Lane 2**: Whole cell lysate of human Colon Adenocarcinoma epithelial cells C2BBE1 - soluble fraction (cytoplasm)

Lysates/proteins at 22 µg per lane.

**Secondary**

**All lanes**: An HRP-conjugated Goat anti-rabbit IgG polyclonal at 1/10000 dilution

Developed using the ECL technique.
Predicted band size: 22 kDa

Observed band size: 22 kDa

Additional bands at: 100 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 3 minutes

Blocking Step: 5% BSA with Tris Base Salt buffer (TBS, pH7.5) and Tween (0.05%) for 1 hour at 22°C

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