Product datasheet

Anti-Claudin 2 antibody ab53032

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Overview

Product name  Anti-Claudin 2 antibody
Description  Rabbit polyclonal to Claudin 2
Host species  Rabbit
Specificity  ab53032 detects endogenous levels of total Claudin 2 protein.

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

Species reactivity
Reacts with: Mouse, Human
Predicted to work with: Rat

Immunogen  A synthetic peptide derived from human Claudin 2.

Positive control  NIH 3T3 cell extracts.

Properties

Form  Liquid

Storage instructions  Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.

Storage buffer  pH: 7.40
Preservative: 0.02% Sodium azide
Constituents: 50% Glycerol, 0.87% Sodium chloride, PBS
Without Mg+2 and Ca+2

Purity  Immunogen affinity purified

Purification notes  ab53032 was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.

Clonality  Polyclonal
Isotype  IgG

Applications

Our Abpromise guarantee covers the use of ab53032 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.
Function
Plays a major role in tight junction-specific obliteration of the intercellular space, through calcium-independent cell-adhesion activity.

Sequence similarities
Belongs to the claudin family.

Cellular localization
Cell junction > tight junction. Cell membrane.

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<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC/IF</td>
<td></td>
<td>Use a concentration of 5 µg/ml.</td>
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<tr>
<td>IHC-P</td>
<td>🌟🌟🌟🌟</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>WB</td>
<td>1/500 - 1/1000. Detects a band of approximately 25 kDa (predicted molecular weight: 25 kDa).</td>
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<td>ELISA</td>
<td>1/5000.</td>
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Target

Immunohistochemistry analysis of paraffin-embedded human breast carcinoma tissue, using ab53032. The picture on the right is blocked with the synthesized peptide.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Claudin 2 antibody (ab53032)

Immunocytochemistry/ Immunofluorescence - Anti-Claudin 2 antibody (ab53032)

ICC/IF image of ab53032 stained MCF7 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab53032, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.
All lanes: Anti-Claudin 2 antibody (ab53032)

Lane 1: NIH/3T3 cells
Lane 2: NIH/3T3 cells with blocking peptide

Predicted band size: 25 kDa

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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