Datasheet for ABIN7602868

# anti-Claudin 11 antibody (C-Term)

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## Overview

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| Quantity: | 100 µg |
| Target: | Claudin 11 (CLDN11) |
| Binding Specificity: | C-Term |
| Reactivity: | Human |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This Claudin 11 antibody is un-conjugated |
| Application: | Western Blotting (WB), Flow Cytometry (FACS) |

## Product Details

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| Purpose: | Anti-CLDN11 Antibody Picoband® |
| Immunogen: | A synthetic peptide corresponding to a sequence at the C-terminus of human CLDN11, which shares 85% amino acid (aa) sequence identity with both mouse and rat CLDN11. |
| Isotype: | IgG |
| Cross-Reactivity (Details): | No cross-reactivity with other proteins |
| Characteristics: | Anti-CLDN11 Antibody Picoband® (ABIN7602868). Tested in WB, Flow Cytometry applications. This antibody reacts with Human. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance. |
| Purification: | Immunogen affinity purified. |

## Target Details

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| Target: | Claudin 11 (CLDN11) |
| Alternative Name: | CLDN11 (CLDN11 Products) |
| Background: | Synonyms: CLDN11, OSP, OTM, Claudin-11, Oligodendrocyte-specific protein<br>Background: Claudin-11 is a protein that in humans is encoded by the CLDN11 gene. This gene encodes a member of the claudin family. Claudins are integral membrane proteins and components of tight junction strands. Tight junction strands serve as a physical barrier to prevent solutes and water from passing freely through the paracellular space between epithelial or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal transductions. The protein encoded by this gene is a major component of central nervous system (CNS) myelin and plays an important role in regulating proliferation and migration of oligodendrocytes. Mouse studies showed that the gene deficiency results in deafness and loss of the Sertoli cell epithelial phenotype in the testis. This protein is a tight junction protein at the human blood-testis barrier (BTB), and the BTB disruption is related to a dysfunction of this gene. Alternatively spliced transcript variants encoding different isoforms have been identified. |
| Molecular Weight: | 22 kDa |
| Gene ID: | 5010 |
| UniProt: | O75508 |
| Pathways: | Hepatitis C |

## Application Details

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| Application Notes: | Western blot, 0.25-0.5 µg/mL, Human<br>Flow Cytometry (Fixed), 1-3 µg/1x$10^6$ cells, Human<br>1. Bronstein, J. M., Kozak, C. A., Chen, X.-N., Wu, S., Danciger, M., Korenberg, J. R., Farber, D. B. Chromosomal localization of murine and human oligodendrocyte-specific protein genes. Genomics 34: 255-257, 1996. 2. Gow, A., Southwood, C. M., Li, J. S., Pariali, M., Riordan, G. P., Brodie, S. E., Danias, J., Bronstein, J. M., Kachar, B., Lazzarini, R. A. CNS myelin and Sertoli cell tight junction strands are absent in Osp/claudin-11 null mice. Cell 99: 649-659, 1999. 3. Maheras, K. J., Peppi, M., Ghoddoussi, F., Galloway, M. P., Perrine, S. A., Gow, A. Absence of Claudin 11 in CNS myelin perturbs behavior and neurotransmitter levels in mice. Sci. Rep. 8: 3798, 2018. |
| Restrictions: | For Research Use only |

## Handling

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| Format: | Lyophilized |
| Reconstitution: | Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL. |
| Concentration: | 500 µg/mL |
| Buffer: | Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4. |
| Storage: | 4 °C,-20 °C |
| Storage Comment: | At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month.<br>It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing. |

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