

## Rabbit anti-Human CLDN11 Polyclonal Antibody | anti-CLDN11 antibody

Anti-CLDN11 Antibody Picoband

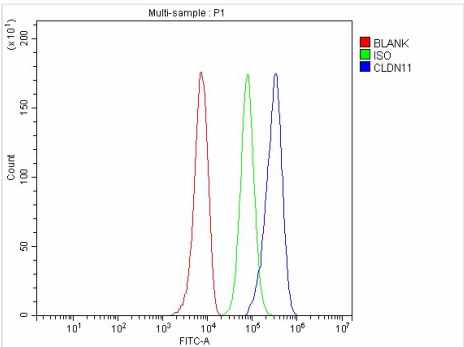
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                   |
|-----------|--------|------------|------------------------------------------------|
| AAA127520 | Rabbit | Human      | Flow Cytometry, Functional Assay, Western Blot |

### PRODUCT SYNONYMS

CLDN11; Polyclonal Antibody; Anti-CLDN11 Antibody Picoband; Claudin-11; claudin 11; OSP; OTM; Oligodendrocyte-specific protein; anti-CLDN11 antibody

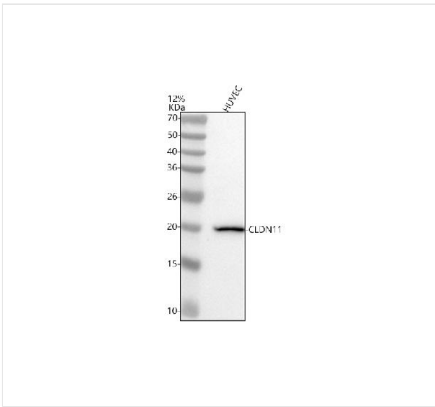
### PRODUCT SPECIFICATIONS

|                                                  |                                                                                                                                                                                                                       |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                             | Rabbit                                                                                                                                                                                                                |
| Reactivity                                       | Human                                                                                                                                                                                                                 |
| Clonality                                        | Polyclonal                                                                                                                                                                                                            |
| Isotype                                          | Rabbit IgG                                                                                                                                                                                                            |
| Purity/Purification                              | Immunogen affinity purified.                                                                                                                                                                                          |
| Form/Format                                      | Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> .                                                                                                                |
| Applicable Applications for anti-CLDN11 antibody | FCM/FACS (Flow Cytometry), WB (Western Blot)                                                                                                                                                                          |
| 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.                                                 |
| Reconstitution                                   | Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                              |
| Cross Reactivity                                 | No cross-reactivity with other proteins                                                                                                                                                                               |
| Preparation and Storage                          | At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing. |



FCM/FACS (Flow Cytometry)

Figure 2. Flow Cytometry analysis of HepG2 cells using anti-CLDN11 antibody (AAA127520).Overlay histogram showing HepG2 cells stained with AAA127520 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-CLDN11 Antibody (AAA127520, 1ug/1x106 cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x106) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



WB (Western Blot)

Figure 1. Western blot analysis of CLDN11 using anti-CLDN11 antibody (AAA127520).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human HUVEC whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-CLDN11 antigen affinity purified polyclonal antibody (#AAA127520) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for CLDN11 at approximately 22 kDa. The expected band size for CLDN11 is at 22 kDa.

ADDITIONAL INFORMATION

|                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-CLDN11 antibody | 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.                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Product Categories/Family for anti-CLDN11 antibody   | Primary Antibodies                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| References                                           | 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. |

NCBI AND UNIPROT INFORMATION

|                                  |                                |
|----------------------------------|--------------------------------|
| NCBI GI #                        | 10938016                       |
| NCBI GeneID                      | 5010                           |
| NCBI Accession #                 | NP_005593.2                    |
| NCBI GenBank Nucleotide #        | NM_005602.5                    |
| UniProt Accession #              | O75508; Q5U0P3; B2R7C1; D3DNQ5 |
| Molecular Weight                 | 21,993 Da                      |
| NCBI Official Full Name          | claudin-11 isoform 1           |
| NCBI Official Synonym Full Names | claudin 11                     |
| NCBI Official Symbol             | CLDN11                         |
| NCBI Official Synonym Symbols    | OSP; OTM                       |

|                            |                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------|
| NCBI Protein Information   | claudin-11; oligodendrocyte-specific protein; oligodendrocyte transmembrane protein |
| UniProt Protein Name       | Claudin-11                                                                          |
| UniProt Gene Name          | <b>CLDN11</b>                                                                       |
| UniProt Synonym Gene Names | OSP; OTM                                                                            |
| UniProt Entry Name         | CLD11_HUMAN                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/cldn11-antibody-flow-cytometry-western-blot-elisa/127520>