Datasheet for ABIN7600188

# anti-SEC61B antibody (AA 16-96)

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## Overview

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| Quantity: | 100 µg |
| Target: | SEC61B |
| Binding Specificity: | AA 16-96 |
| Reactivity: | Human, Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This SEC61B antibody is un-conjugated |
| Application: | Western Blotting (WB), ELISA, Flow Cytometry (FACS) |

## Product Details

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| Purpose: | Anti-SEC61B Antibody Picoband® |
| Immunogen: | E.coli-derived human SEC61B recombinant protein (Position: R16-S96). Human SEC61B shares 98.8% amino acid (aa) sequence identity with mouse SEC61B. |
| Characteristics: | Anti-SEC61B Antibody Picoband® (ABIN7600188). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. 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: | SEC61B |
| Alternative Name: | SEC61B (SEC61B Products) |
| Background: | Protein transport protein Sec61 subunit beta is a protein that in humans is encoded by the SEC61B gene. The Sec61 complex is the central component of the protein translocation apparatus of the endoplasmic reticulum (ER) membrane. Oligomers of the Sec61 complex form a transmembrane channel where proteins are translocated across and integrated into the ER membrane. This complex consists of three membrane proteins- alpha, beta, and gamma. This gene encodes the beta-subunit protein. The Sec61 subunits are also observed in the post-ER compartment, suggesting that these proteins can escape the ER and recycle back. There is evidence for multiple polyadenylated sites for this transcript. |
| Molecular Weight: | 15 kDa |
| Gene ID: | 10952 |
| UniProt: | P60468 |
| Pathways: | Protein targeting to Nucleus |

## Application Details

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| Application Notes: | Western blot, 0.1-0.25 µg/mL, Human, Mouse, Rat<br>Flow Cytometry (Fixed), 1-3 µg /1x$10^6$ cells, Human<br>ELISA, 0.1-0.5 µg/mL, -<br>1. Bebok, Z., Mazzochi, C., King, S. A., Hong, J. S., Sorscher, E. J. The mechanism underlying cystic fibrosis transmembrane conductance regulator transport from the endoplasmic reticulum to the proteasome includes Sec61-beta and a cytosolic, deglycosylated intermediary. J. Biol. Chem. 273: 29873-29878, 1998. 2. Besse, W., Dong, K., Choi, J., Punia, S., Fedeles, S. V., Choi, M., Gallagher, A.-R., Huang, E. B., Gulati, A., Knight, J., Mane, S., Tahvanainen, E., Tahvanainen, P., Sanna-Cherchi, S., Lifton, R. P., Watnick, T., Pei, Y. P., Torres, V. E., Somlo, S. Isolated polycystic liver disease genes define effectors of polycystin-1 function. J. Clin. Invest. 127: 1772-1785, 2017. Note: Erratum: J. Clin. Invest. 127: 3558 only, 2017. 3. Chen, Y., Le Caherec, F., Chuck, S. L. Calnexin and other factors that alter translocation affect the rapid binding of ubiquitin to apoB in the Sec61 complex. J. Biol. Chem. 273: 11887-11894, 1998. |
| 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. |