

SEC61B Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP14910c**Specification**

SEC61B Antibody (Center) Blocking Peptide - Product InformationPrimary Accession [P60468](#)**SEC61B Antibody (Center) Blocking Peptide - Additional Information****Gene ID** 10952**Other Names**

Protein transport protein Sec61 subunit beta, SEC61B

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

SEC61B Antibody (Center) Blocking Peptide - Protein Information**Name** SEC61B {ECO:0000303|PubMed:28375157, ECO:0000312|HGNC:HGNC:16993}**Function**

Component of SEC61 channel-forming translocon complex that mediates transport of signal peptide-containing precursor polypeptides across the endoplasmic reticulum (ER) (PubMed:12475939). Forms a ribosome receptor and a gated pore in the ER membrane, both functions required for cotranslational translocation of nascent polypeptides (PubMed:12475939). The SEC61 channel is also involved in ER membrane insertion of transmembrane proteins: it mediates membrane insertion of the first few transmembrane segments of proteins, while insertion of subsequent transmembrane regions of multi-pass membrane proteins is mediated by the multi-pass translocon (MPT) complex (PubMed:32820719, PubMed:36261522). The SEC61 channel cooperates with the translocating protein TRAM1 to import nascent proteins into the ER (PubMed:19121997).

Cellular Location

Endoplasmic reticulum membrane; Single-pass membrane protein

SEC61B Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

SEC61B Antibody (Center) Blocking Peptide - Images

SEC61B Antibody (Center) Blocking Peptide - Background

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.

SEC61B Antibody (Center) Blocking Peptide - References

Liao, H.J., et al. Cancer Res. 69(15):6179-6183(2009) Wang, B., et al. Cell 133(6):1080-1092(2008) Liao, H.J., et al. Mol. Biol. Cell 18(3):1064-1072(2007) Olsen, J.V., et al. Cell 127(3):635-648(2006) Olsen, J.V., et al. Cell 127(3):635-648(2006)