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SEC61A1 Antibody - C-terminal region
Rabbit Polyclonal Antibody
Catalog # AI15206

Specification

SEC61A1 Antibody - C-terminal region - Product Information

Application	**WB**
Primary Accession	P61619
Other Accession	NM_013336, NP_037468
Reactivity	**Human, Mouse, Rat, Rabbit, Pig, Goat, Horse, Bovine, Guinea Pig, Dog**
Predicted	**Human, Mouse, Rat, Rabbit, Pig, Goat, Horse, Bovine, Guinea Pig, Dog**
Host	**Rabbit**
Clonality	**Polyclonal**
Calculated MW	**52kDa KDa**

SEC61A1 Antibody - C-terminal region - Additional Information

Gene ID 29927

Alias Symbol	**HSEC61, SEC61, SEC61A**

Other Names
Protein transport protein Sec61 subunit alpha isoform 1, Sec61 alpha-1, SEC61A1, SEC61A

Format
Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Reconstitution & Storage
Add 50 ul of distilled water. Final anti-SEC61A1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at 20°C. Avoid repeat freeze-thaw cycles.

Precautions
SEC61A1 Antibody - C-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

SEC61A1 Antibody - C-terminal region - Protein Information

Name SEC61A1

Synonyms SEC61A

Function
Component of SEC61 channel-forming translocon complex that mediates transport of signal peptide-containing precursor polypeptides across the endoplasmic reticulum (ER) (PubMed:12475939, PubMed:22375059, PubMed:28782633, PubMed:<a

href="http://www.uniprot.org/citations/29719251" target="_blank">29719251, PubMed:32814900). Forms a ribosome receptor and a gated pore in the ER membrane, both functions required for cotranslational translocation of nascent polypeptides (PubMed:22375059, PubMed:28782633, PubMed:29719251). May cooperate with auxiliary protein SEC62, SEC63 and HSPA5/BiP to enable post-translational transport of small presecretory proteins (PubMed:22375059, PubMed:29719251). 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:8616892). Controls the passive efflux of calcium ions from the ER lumen to the cytosol through SEC61 channel, contributing to the maintenance of cellular calcium homeostasis (PubMed:28782633). Plays a critical role in nephrogenesis, specifically at pronephros stage (By similarity).

Cellular Location
Endoplasmic reticulum membrane; Multi-pass membrane protein Note=Localizes exclusively in granular structures in the endoplasmic reticulum (ER).

Tissue Location
Expressed in proximal and distal tubules in kidney (at protein level).

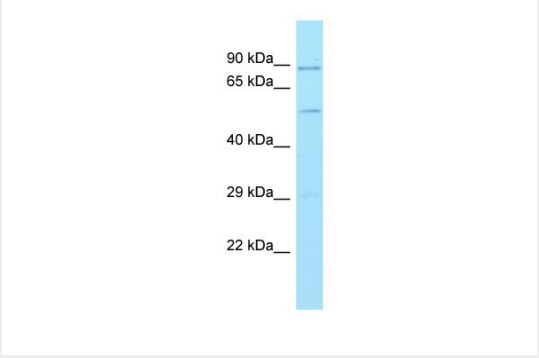
SEC61A1 Antibody - C-terminal region - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SEC61A1 Antibody - C-terminal region - Images

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WB Suggested Anti-SEC61A1 Antibody Titration: 1.0 µg/ml
Positive Control: HT1080 Whole CellSEC61A1 is supported by BioGPS gene expression data to be expressed in HT1080

SEC61A1 Antibody - C-terminal region - References

Liu T.,et al.Submitted (JUL-1998) to the EMBL/GenBank/DDBJ databases.
Li W.,et al.Submitted (AUG-1998) to the EMBL/GenBank/DDBJ databases.
Finke K.,et al.Submitted (FEB-2001) to the EMBL/GenBank/DDBJ databases.
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Bechtel S.,et al.BMC Genomics 8:399-399(2007).