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SEC61A1 Antibody - C-terminal region

Rabbit Polyclonal Antibody
Catalog # AI15206

Product Information

Application	WB
Primary Accession	P61619
Other Accession	NM_013336, NP_037468
Reactivity	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Dog, Guinea Pig, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Zebrafish, Pig, Goat, Dog, Guinea Pig, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	52265

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.

Protein Information

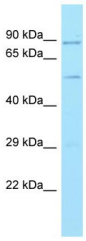
Name	SEC61A1
Synonyms	SEC61A
Function	Component of SEC61 channel-forming translocon complex that mediates transport of signal peptide-containing precursor polypeptides across the endoplasmic reticulum (ER) (PubMed:12475939, PubMed:22375059, PubMed:28782633, PubMed:29719251, PubMed:32814900). Forms a 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).

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).

Images



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

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.