

SRP54 Antibody (C-term) Blocking Peptide
Synthetic peptide
Catalog # BP16615b**Specification**

SRP54 Antibody (C-term) Blocking Peptide - Product InformationPrimary Accession [P61011](#)**SRP54 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 6729**Other Names**

Signal recognition particle 54 kDa protein, SRP54, SRP54

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.

SRP54 Antibody (C-term) Blocking Peptide - Protein Information**Name** SRP54 ([HGNC:11301](#))**Function**

Component of the signal recognition particle (SRP) complex, a ribonucleoprotein complex that mediates the cotranslational targeting of secretory and membrane proteins to the endoplasmic reticulum (ER) (PubMed: [34020957](http://www.uniprot.org/citations/34020957)). As part of the SRP complex, associates with the SRP receptor (SR) component SRPRA to target secretory proteins to the endoplasmic reticulum membrane (PubMed: [34020957](http://www.uniprot.org/citations/34020957)). Binds to the signal sequence of presecretory proteins when they emerge from the ribosomes (PubMed: [34020957](http://www.uniprot.org/citations/34020957)). Displays basal GTPase activity, and stimulates reciprocal GTPase activation of the SR subunit SRPRA (PubMed: [28972538](http://www.uniprot.org/citations/28972538), PubMed: [34020957](http://www.uniprot.org/citations/34020957)). Forms a guanosine 5'-triphosphate (GTP)-dependent complex with the SR subunit SRPRA (PubMed: [34020957](http://www.uniprot.org/citations/34020957)). SR compaction and GTPase mediated rearrangement of SR drive SRP-mediated cotranslational protein translocation into the ER (PubMed: [34020957](http://www.uniprot.org/citations/34020957)). Requires the presence of SRP9/SRP14 and/or SRP19 to stably interact with RNA (By similarity). Plays a role in proliferation and differentiation of granulocytic cells, neutrophils migration capacity and exocrine

pancreas development (PubMed:28972538, PubMed:29914977).

Cellular Location

Nucleus speckle. Cytoplasm Endoplasmic reticulum

SRP54 Antibody (C-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

SRP54 Antibody (C-term) Blocking Peptide - Images**SRP54 Antibody (C-term) Blocking Peptide - Background**

SRP54 binds to the signal sequence of presecretory protein when they emerge from the ribosomes and transfers them to TRAM (translocating chain-associating membrane protein).

SRP54 Antibody (C-term) Blocking Peptide - References

Rose, J. Phd, et al. Mol. Med. (2010) In press :Yoshida, M., et al. Mol. Pharmacol. 73(3):987-994(2008)Sakashita, E., et al. Mol. Cell. Biol. 24(3):1174-1187(2004)Kuglstatter, A., et al. Nat. Struct. Biol. 9(10):740-744(2002)Yin, J., et al. RNA 7(10):1389-1396(2001)