

SRP54 Antibody (C-term)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP16615b

Specification

SRP54 Antibody (C-term) - Product Information

Application	WB,E
Primary Accession	P61011
Other Accession	Q6AYB5 , P14576 , Q4R965 , Q2T9U1 , NP_003127.1 , NP_001139754.1 , Q7ZVN5
Reactivity	Human
Predicted	Bovine, Zebrafish, Monkey, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	55705
Antigen Region	346-374

SRP54 Antibody (C-term) - Additional Information

Gene ID 6729

Other Names

Signal recognition particle 54 kDa protein, SRP54, SRP54

Target/Specificity

This SRP54 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 346-374 amino acids from the C-terminal region of human SRP54.

Dilution

WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

SRP54 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

SRP54 Antibody (C-term) - 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](#)). 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](#)). Binds to the signal sequence of presecretory proteins when they emerge from the ribosomes (PubMed:[34020957](#)). Displays basal GTPase activity, and stimulates reciprocal GTPase activation of the SR subunit SRPRA (PubMed:[28972538](#), PubMed:[34020957](#)). Forms a guanosine 5'-triphosphate (GTP)-dependent complex with the SR subunit SRPRA (PubMed:[34020957](#)). SR compaction and GTPase mediated rearrangement of SR drive SRP-mediated cotranslational protein translocation into the ER (PubMed:[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

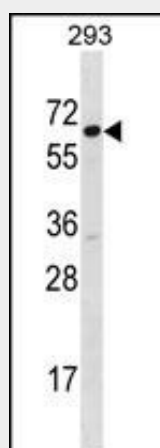
Nucleus speckle. Cytoplasm Endoplasmic reticulum

SRP54 Antibody (C-term) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

SRP54 Antibody (C-term) - Images



SRP54 Antibody (C-term) (Cat. #AP16615b) western blot analysis in 293 cell line lysates (35ug/lane). This demonstrates the SRP54 antibody detected the SRP54 protein (arrow).

SRP54 Antibody (C-term) - 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) - 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)