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SRP14 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP19074c

Product Information

Application	WB, E
Primary Accession	P37108
Other Accession	Q4R5C7, NP_003125.3
Reactivity	Human
Predicted	Monkey
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB39883
Calculated MW	14570
Antigen Region	28-55

Additional Information

Gene ID	6727
Other Names	Signal recognition particle 14 kDa protein, SRP14, 18 kDa Alu RNA-binding protein, SRP14
Target/Specificity	This SRP14 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 28-55 amino acids from the Central region of human SRP14.
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	SRP14 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	SRP14
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:11089964). SRP9 together with SRP14 and the Alu portion of the SRP RNA, constitutes the elongation arrest domain of SRP (PubMed:11089964). The complex of SRP9 and SRP14 is required for SRP RNA binding (PubMed:11089964).

Cellular Location Cytoplasm.

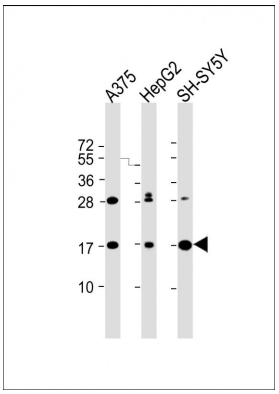
Background

Signal-recognition-particle assembly has a crucial role in targeting secretory proteins to the rough endoplasmic reticulum membrane. SRP9 together with SRP14 and the Alu portion of the SRP RNA, constitutes the elongation arrest domain of SRP. The complex of SRP9 and SRP14 is required for SRP RNA binding.

References

Mary, C., et al. RNA 16(5):969-979(2010)
Lakkaraju, A.K., et al. Cell 133(3):440-451(2008)
Yoshida, M., et al. Mol. Pharmacol. 73(3):987-994(2008)
Lamesch, P., et al. Genomics 89(3):307-315(2007)
Ewing, R.M., et al. Mol. Syst. Biol. 3, 89 (2007) :

Images



All lanes : Anti-SRP14 Antibody (Center) at 1:2000 dilution Lane 1: A375 whole cell lysate Lane 2: HepG2 whole cell lysate Lane 3: SH-SY5Y whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 15 kDa Blocking/Dilution buffer: 5% NFDM/TBST.