

Recombinant Anti-SRP72 Rabbit mAb

Catalog # AP95407

Product Information

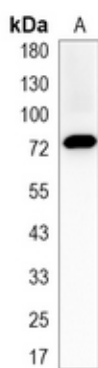
Application	WB, IHC, FC, IF/IC
Primary Accession	O76094
Reactivity	Human
Host	Rabbit
Clonality	Monoclonal
Calculated MW	74606

Additional Information

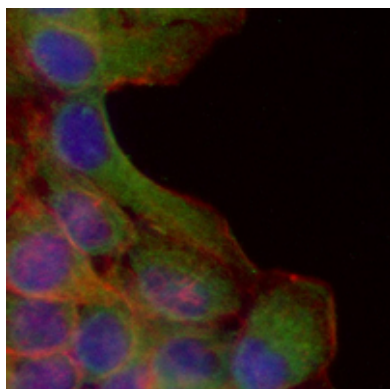
Gene ID	6731
Other Names	Signal recognition particle subunit SRP72; SRP72; Signal recognition particle 72 kDa protein
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within human SRP72 protein. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 FC~~1:10~50 IF/IC~~N/A
Format	Liquid in PBS, pH 7.3, 50% glycerol, 0.05% BSA, and 0.05% Proclin300.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	SRP72
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). The SRP complex interacts with the signal sequence in nascent secretory and membrane proteins and directs them to the membrane of the ER (PubMed: 34020957). The SRP complex targets the ribosome-nascent chain complex to the SRP receptor (SR), which is anchored in the ER, where SR compaction and GTPase rearrangement drive cotranslational protein translocation into the ER (PubMed: 34020957). Binds the signal recognition particle RNA (7SL RNA) in presence of SRP68 (PubMed: 21073748 , PubMed: 27899666). Can bind 7SL RNA with low affinity (PubMed: 21073748 , PubMed: 27899666). The SRP complex possibly participates in the elongation arrest function (By similarity).
Cellular Location	Cytoplasm. Endoplasmic reticulum



Western blot analysis of SRP72 expression in HEK293 (A) whole cell lysates. (Predicted band size: 74 kD; Observed band size: 74 kD)



Immunofluorescent analysis of SRP72 staining in HEK293 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with an AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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