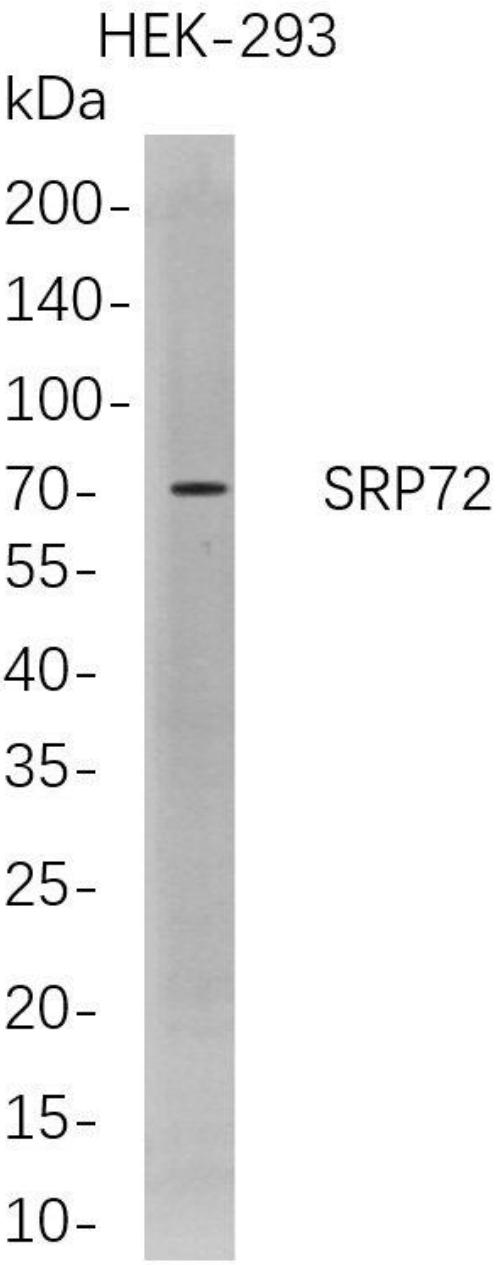
SRP72 Rabbit mAb

Catalog No	YP-rAb-17700
Isotype	IgG
Reactivity	Human
Applications	WB,IHC,IF,ICC,FC
Gene Name	SRP72
Protein Name	Signal recognition particle subunit SRP72;SRP72;Signal recognition particle 72 kDa protein;
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	WB 1:1000-5000; IHC 1:100-300; ICC/IF 1:100-300; FC 1:100-300 Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	SRP72 ; Signal recognition particle subunit SRP72 ; SRP72 ; Signal recognition particle 72 kDa protein ;
Observed Band	74kD
Calculated Molecular Weight	
Cell Pathway	Cytoplasm. Endoplasmic reticulum.
Tissue Specificity	
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).

	{ECO:0000250|UniProtKB:P38688, ECO:0000269|PubMed:21073748, ECO:0000269|PubMed:27899666, ECO:0000269|PubMed:34020957}.
Background	This gene encodes the 72 kDa subunit of the signal recognition particle (SRP), a ribonucleoprotein complex that mediates the targeting of secretory proteins to the endoplasmic reticulum (ER). The SRP complex consists of a 7S RNA and 6 protein subunits: SRP9, SRP14, SRP19, SRP54, SRP68, and SRP72, that are bound to the 7S RNA as monomers or heterodimers. SRP has at least 3 distinct functions that can be associated with the protein subunits: signal recognition, translational arrest, and ER membrane targeting by interaction with the docking protein. Mutations in this gene are associated with familial bone marrow failure. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Jun 2012]
matters needing attention	Avoid repeated freezing and thawing!
Usage suggestions	This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Western Blot analysis of HEK-293 whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-SRP72 rabbit mAb. The HRP-conjugated Goat anti-Rabbit IgG(H + L) antibody was used to detect the antibody.