Datasheet for ABIN307162

anti-SRPR antibody (AA 39-295)

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1 Image

Overview

Quantity:	250 µg
Target:	SRPR
Binding Specificity:	AA 39-295
Reactivity:	Dog
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This SRPR antibody is un-conjugated
Application:	Western Blotting (WB)

Product Details

Immunogen:	The antibody to SRalpha was raised against a recombinant protein corresponding to amino acids 39-295 which includes part of the amino terminal SRbeta binding region and the hinge region between it and the carboxyl-terminal GTPase domain.
Isotype:	IgG
Cross-Reactivity:	Dog
Characteristics:	Signal Recognition Particle Receptor, α subunit,The receptor for Signal Recognition Particle (SRP) is the site on the endoplasmic reticulum that ribosomes translating secreted and integral membrane proteins are initially targeted to. Once the ribosome-SRP complex arrives at the SRP receptor the protein being translated is transferred to the translocation complex (Sec61) in the ER membrane. The SRP receptor is composed of two subunits SRalpha and SRbeta. The SRalpha subunit is a translocation GTPase peripherally bound to the endoplasmic reticulum by

Product Details

	its interaction with SRbeta. SRalpha also binds to the GTPase of SRP (SRP54) and these two proteins appear to function as each others GTPase activating proteins (GAPs). Hydrolysis of GTP by SRalpha and SRP54 is thought to be involved in transfer of the nascent protein to the Sec61 complex in the ER. SRalpha has an apparent molecular weight of 72 kDa. SRbeta is a Type I transmembrane protein that spans the membrane once and contains Ras type GTPase domain. The function of the GTPase in SRbeta is unknown. The membrane spanning domain is at the amino-terminus of SRbeta. The GTPase domain encompasses three quarters of the protein and is carboxyl- of the transmembrane region. SRalpha binds to the GTPase domain of SRbeta. Heterodimerization of SRalpha and SRbeta masks the carboxyl-terminal epitope of SRbeta.
Purification:	Ammonium Sulfate Precipitation

Target Details

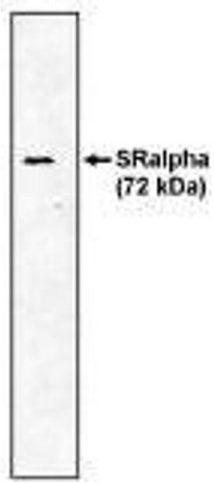
Target:	SRPR
Alternative Name:	SR alpha (SRPR Products)
Pathways:	ER-Nucleus Signaling

Application Details

Application Notes:	Detects SRalpha by Western blot analysis at 1 to 5 µg/mL. Also can be used to immunoprecipitate both subunits of SRP receptors under non-denaturing conditions. Optimal concentration should be evaluated by serial dilutions.
Restrictions:	For Research Use only

Handling

Buffer:	Provided as solution in phosphate buffered saline with 0.08 % sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C
Storage Comment:	Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles



Western Blotting

Image 1. Western blot analysis using SRα antibody at 1 µg/ml on canine microsomal protein.

