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anti-SRPRB antibody (AA 246-265)



Image



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Quantity:	250 μg
Target:	SRPRB
Binding Specificity:	AA 246-265
Reactivity:	Dog
Host:	Sheep
Clonality:	Polyclonal
Conjugate:	This SRPRB antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)
Product Details	
Immunogen:	Synthetic peptide corresponding to amino acids 246-265 derived from the carboxyl terminal of
	the canine SRbeta subunit.
Isotype:	IgG
Cross-Reactivity:	Chicken, Dog
Characteristics:	Signal Recognition Particle Receptor, β 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
	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

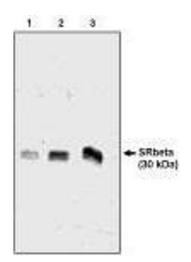
Target:	SRPRB
Alternative Name:	SR beta (SRPRB Products)
Pathways:	ER-Nucleus Signaling

Application Details

Restrictions:	For Research Use only
	bound to SRalpha. Optimal concentration should be evaluated by serial dilutions.
Application Notes:	Detects Skibeta by Western blot analysis at 15 µg/mL. Antibody will not detect Skibeta protein

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 SR β antibody ng of canine microsomal protein Chicken, Dog