antibodies

Datasheet for ABIN3120270 RSP01 Protein (AA 21-265) (His tag)





Overview

Quantity:	1 mg
Target:	RSP01
Protein Characteristics:	AA 21-265
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This RSP01 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA, Crystallization (Crys)

Product Details

Sequence:	SRGIKGKRQR RISAEGSQAC AKGCELCSEV NGCLKCSPKL FILLERNDIR QVGVCLPSCP
	PGYFDARNPD MNKCIKCKIE HCEACFSHNF CTKCQEALYL HKGRCYPACP EGSTAANSTM
	ECGSPAQCEM SEWSPWGPCS KKRKLCGFRK GSEERTRRVL HAPGGDHTTC SDTKETRKCT
	VRRTPCPEGQ KRRKGGQGRR ENANRHPARK NSKEPRSNSR RHKGQQQPQP GTTGPLTSVG
	PTWAQ
	Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a
	special request, please contact us.
Characteristics:	Made in Germany - from design to production - by highly experienced protein experts.
	Mouse Rspo1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process
	to ensure crystallization grade.
	State-of-the-art algorithm used for plasmid design (Gene synthesis).

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Target Details

Target:	RSP01
Alternative Name:	Rspo1 (RSP01 Products)
Background:	Activator of the canonical Wnt signaling pathway by acting as a ligand for LGR4-6 receptors.
	Upon binding to LGR4-6 (LGR4, LGR5 or LGR6), LGR4-6 associate with phosphorylated LRP6

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Target Details

	and frizzled receptors that are activated by extracellular Wnt receptors, triggering the canonical
	Wnt signaling pathway to increase expression of target genes. Also regulates the canonical
	Wnt/beta-catenin-dependent pathway and non-canonical Wnt signaling by acting as an inhibito
	of ZNRF3, an important regulator of the Wnt signaling pathway. Acts as a ligand for frizzled
	FZD8 and LRP6. May negatively regulate the TGF-beta pathway. Has a essential roles in ovary
	determination. {ECO:0000269 PubMed:21693646}.
Molecular Weight:	28.2 kDa Including tag.
UniProt:	Q9Z132
Application Details	
Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies
	as well. As the protein has not been tested for functional studies yet we cannot offer a gurantee
	though.
Comment:	Protein has not been tested for activity yet. In cases in which it is highly likely that the
	recombinant protein with the default tag will be insoluble our protein lab may suggest a higher
	molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible
	options with you in detail to assure that you receive your protein of interest.
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date	Unlimited (if stored properly)

Expiry Date: Unlimited (if stored properly)



Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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