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Datasheet for ABIN5709979

**MUSK Protein (AA 24-495, Extracellular) (GST tag)****1** Image

## Overview

Quantity:	100 µg
Target:	MUSK
Protein Characteristics:	Extracellular, AA 24-495
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MUSK protein is labelled with GST tag.
Application:	SDS-PAGE (SDS)

## Product Details

Sequence:	LPKAPVITTP LETVDALVEE VATFMCAVES YPQPEISWTR NKILIKLFD T RYSIRENGQL LTILSVEDSD DGIYCCTANN GVGAVESCG ALQVKMKPKI TRPPINVKII EGLKAVLPCT TMGNPKPSVS WIKGDSPLRE NSRIAVLESG SLRIHNVQKE DAGQYRCVAK NSLGTAYSKV VKLEVEE ESE PEQDTKVFAR ILRAPESHNV TFGSFVTLHC TATGIPVPTI TWIENGNAVS SGSIQESVKD RVIDSRLQLF ITKPGLYTCI ATNKHGEKFS TAKAAATISI AEWREYCLAV KELFCAKEWL VMEEKTHRGL YRSEMHL LSV PECSKLPMSH WDPTACARLP HLAFFPMTSS KPSVDIPNLP SSSSSSFSVS PTYSMTVIIS IMSSFAIFVL LTITTL YCCR R R KQWKNKKR ESAAVTLTTL PSELLLDRLH PNP MYQRMPL LLNPKLLSLE YPRNNIEYVR DI
Purification:	SDS-PAGE
Purity:	> 90 %

## Target Details

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Target:	MUSK
Alternative Name:	MUSK ( <a href="#">MUSK Products</a> )
Background:	<p>Receptor tyrosine kinase which plays a central role in the formation and the maintenance of the neuromuscular junction (NMJ), the synapse between the motor neuron and the skeletal muscle . Recruitment of AGRIN by LRP4 to the MUSK signaling complex induces phosphorylation and activation of MUSK, the kinase of the complex. The activation of MUSK in myotubes regulates the formation of NMJs through the regulation of different processes including the specific expression of genes in subsynaptic nuclei, the reorganization of the actin cytoskeleton and the clustering of the acetylcholine receptors (AChR) in the postsynaptic mbrane. May regulate AChR phosphorylation and clustering through activation of ABL1 and Src family kinases which in turn regulate MUSK. DVL1 and PAK1 that form a ternary complex with MUSK are also important for MUSK-dependent regulation of AChR clustering. May positively regulate Rho family GTPases through FNTA. Mediates the phosphorylation of FNTA which promotes prenylation, recruitment to mbranes and activation of RAC1 a regulator of the actin cytoskeleton and of gene expression. Other effectors of the MUSK signaling include DNAJA3 which functions downstream of MUSK. May also play a role within the central nervous syst by mediating cholinergic responses, synaptic plasticity and mory formation .1 Publication</p>
Molecular Weight:	79.9 kDa
UniProt:	<a href="#">015146</a>
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Regulation of Muscle Cell Differentiation</a> , <a href="#">Synaptic Membrane</a> , <a href="#">Regulation of Cell Size</a> , <a href="#">Skeletal Muscle Fiber Development</a>

## Application Details

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Application Notes:	Optimal working dilution should be determined by the investigator.
Restrictions:	For Research Use only

## Handling

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Format:	Liquid
Concentration:	0.1-2 mg/mL
Buffer:	20 mM Tris-HCl based buffer, pH 8.0
Storage:	-80 °C,4 °C,-20 °C

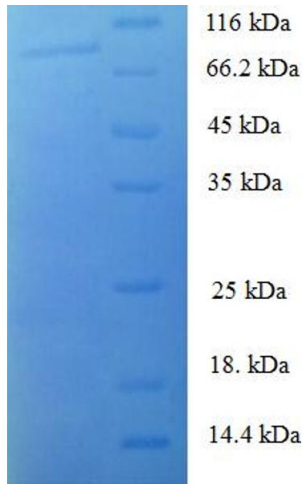
## Handling

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Storage Comment: Store at -20°C, for extended storage, conserve at -20°C or -80°C. Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Images

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### SDS-PAGE

Image 1.