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Datasheet for ABIN6242455 anti-MUSK antibody (AA 600-860)

2 Images



Overview

Quantity:	400 µL
Target:	MUSK
Binding Specificity:	AA 600-860
Reactivity:	Mouse, Rat
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MUSK antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))
Product Details	

Immunogen:	This mouse Musk antibody is generated from a mouse immunized with recombinant protein
	from mouse Musk.
Clone:	1429CT456-173-44
Isotype:	IgG1 kappa
Purification:	This antibody is purified through a protein G column, followed by dialysis against PBS.

Target Details

Target:	MUSK
Alternative Name:	Musk (MUSK Products)
Background:	Receptor tyrosine kinase which plays a central role in the formation and the maintenance of the

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	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
	membrane. 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 membranes 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
	system by mediating cholinergic responses, synaptic plasticity and memory formation.
Molecular Weight:	96693
UniProt:	Q61006
Pathways:	RTK Signaling, Regulation of Muscle Cell Differentiation, Synaptic Membrane, Regulation of Cell
	Size, Skeletal Muscle Fiber Development
Application Details	
Application Notes:	WB: 1:2000. IHC-P: 1:25
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified monoclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Expiry Date:	6 months

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Immunohistochemistry (Paraffin-embedded Sections)

Image 1. Immunohistochemical analysis of paraffinembedded M. skeletal muscle section using Musk Antibody (ABIN6242455 and ABIN6577083). (ABIN6242455 and ABIN6577083) was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Western Blotting

Image 2. Western blot analysis of lysates from C2C12, L6 cell line (from left to right), using Musk Antibody (ABIN6242455 and ABIN6577083). (ABIN6242455 and ABIN6577083) was diluted at 1:2000 at each lane. A goat anti-mouse IgG H&L(HRP) at 1:3000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.

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