

Datasheet for ABIN392019
anti-MUSK antibody (N-Term)



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Overview

Quantity:	400 µL
Target:	MUSK
Binding Specificity:	AA 35-65, N-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This MUSK antibody is un-conjugated
Application:	Western Blotting (WB), Flow Cytometry (FACS), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This MUSK antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 35-65 amino acids from the N-terminal region of human MUSK.
Clone:	RB01497
Isotype:	Ig Fraction
Predicted Reactivity:	M, Rat
Purification:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Target Details

Target:	MUSK
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Target Details

Alternative Name:	MUSK (MUSK Products)
Background:	Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the γ phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains. The tyrosine kinase (TK) group is mainly involved in the regulation of cell-cell interactions such as differentiation, adhesion, motility and death. There are currently about 90 TK genes sequenced, 58 are of receptor protein TK (e.g. EGFR, EPH, FGFR, PDGFR, TRK, and VEGFR families), and 32 of cytosolic TK (e.g. ABL, FAK, JAK, and SRC families).
Molecular Weight:	97056
Gene ID:	4593
NCBI Accession:	NP_001159752 , NP_001159753 , NP_005583
UniProt:	O15146
Pathways:	RTK Signaling , Regulation of Muscle Cell Differentiation , Synaptic Membrane , Regulation of Cell Size , Skeletal Muscle Fiber Development

Application Details

Application Notes:	WB: 1:1000. WB: 1:1000. WB: 1:1000. IHC-P: 1:10~50. FC: 1:10~50
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal 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

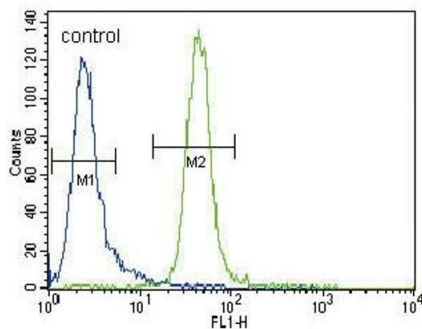
Handling

Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

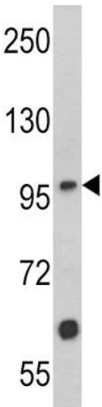
Product cited in:	<p>Chevessier, Faraut, Ravel-Chapuis, Richard, Gaudon, Bauché, Prioleau, Herbst, Goillot, loos, Azulay, Attarian, Leroy, Fournier, Legay, Schaeffer, Koenig, Fardeau, Eymard, Pouget, Hantai: "[Pathophysiological characterization of congenital myasthenic syndromes: the example of mutations in the MUSK gene]." in: Journal de la Société de biologie, Vol. 199, Issue 1, pp. 61-77, (2005) (PubMed).</p> <p>Chevessier, Faraut, Ravel-Chapuis, Richard, Gaudon, Bauché, Prioleau, Herbst, Goillot, loos, Azulay, Attarian, Leroy, Fournier, Legay, Schaeffer, Koenig, Fardeau, Eymard, Pouget, Hantai: "MUSK, a new target for mutations causing congenital myasthenic syndrome." in: Human molecular genetics, Vol. 13, Issue 24, pp. 3229-40, (2004) (PubMed).</p>
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Images



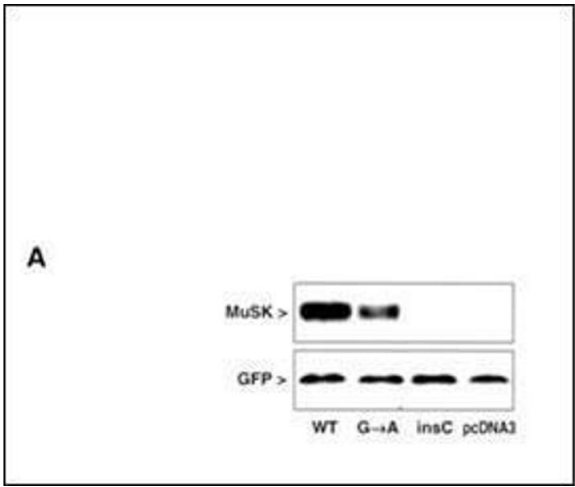
Flow Cytometry

Image 1. MUSK Antibody (N-term) (ABIN392019 and ABIN2841795) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram). FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



Western Blotting

Image 2. Western blot analysis of MUSK Antibody (N-term) (ABIN392019 and ABIN2841795) in Jurkat cell line lysates (35 µg/lane). MUSK (arrow) was detected using the purified Pab.



Western Blotting

Image 3. MuSK protein expression in extracts of COS cells after transfection with MuSK mutated and GFP constructs. WB with polyclonal MuSK and monoclonal GFP antibodies showed normal expression of the wild-type MuSK protein (WT), diminished expression of the GA mutant MuSK and no expression of the insC mutant or the pcDNA3 vector alone in transfected COS cells. GFP cotransfection was used to verify transfection efficiency.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN392019.