MUSK Polyclonal Antibody

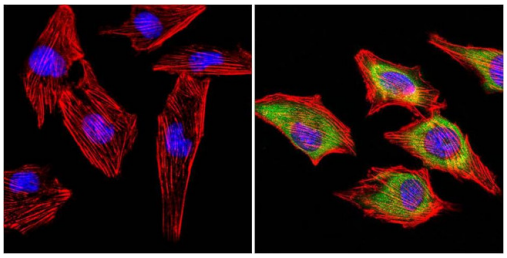
Product Details	
Size	200 µg
Species Reactivity	Human, Mouse, Rat
Published Species	Rat, Human, Mouse
Host/Isotype	Rabbit / IgG
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Recombinant protein containing residues 210-304 from the extracellular domain of rat MuSK
Form	Liquid
Concentration	1 mg/mL
Purification	Protein G
Storage buffer	PBS with 1mg/mL BSA, 30% glycerol
Contains	0.05% sodium azide
Storage conditions	-20° C, Avoid Freeze/Thaw Cycles
RRID	AB_2147253

Applications	Tested Dilution	Publications
Western Blot (WB)	1:500-1:1,000	2 Publications
Immunohistochemistry (IHC)	-	1 Publication
Immunohistochemistry (Paraffin) (IHC (P))	1:20-1:100	-
Immunocytochemistry (ICC/IF)	1:20-1:100	1 Publication
Immunoprecipitation (IP)	Assay-dependent	2 Publications

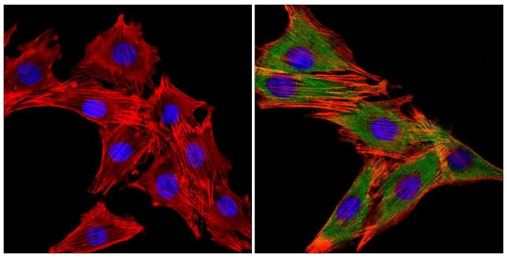
Product Specific Information

PA1-1741 detects a predominant band at ~98kD. Other lower MW nonspecific bands of unknown identity were also detected and are likely to be proteolytic fragments.

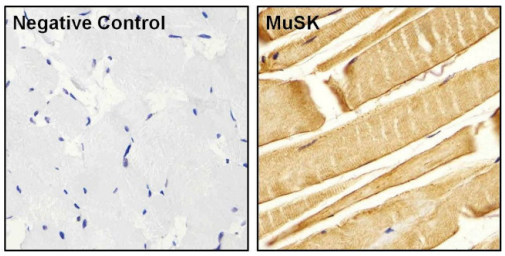
Product Images For MUSK Polyclonal Antibody



MUSK Antibody (PA1-1741) in ICC/IF
Immunofluorescent analysis of muscle-specific kinase (MuSK) (green) in C2C12 mouse myoblast cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.1% Triton X-100 in TBS for 10 minutes, and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were stained without (left panel) or with a MuSK polyclonal antibody (Product # PA1-1741, right panel), at a dilution of 1:20 in blocking buffer for at least 1 hour at room temperature, and then incubated with a DyLight 488 goat anti-rabbit IgG secondary antibody (Product # 35552) for 45 minutes at room temperature (green). F-Actin (both panels, red) was stained with DyLight 554 Phalloidin (Product # 21834) and nuclei (both panels, blue) were stained with DAPI. Images were taken at 60X magnification.



MUSK Antibody (PA1-1741) in ICC/IF
Immunofluorescent analysis of muscle-specific kinase (MuSK) (green) in L6 rat myoblast cells. The cells were fixed with 4% paraformaldehyde for 15 minutes, permeabilized with 0.1% Triton X-100 in TBS for 10 minutes, and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were stained without (left panel) or with a MuSK polyclonal antibody (Product # PA1-1741, right panel), at a dilution of 1:20 in blocking buffer for at least 1 hour at room temperature, and then incubated with a DyLight 488 goat anti-rabbit IgG secondary antibody (Product # 35552) for 45 minutes at room temperature (green). F-Actin (both panels, red) was stained with DyLight 554 Phalloidin (Product # 21834) and nuclei (both panels, blue) were stained with DAPI. Images were taken at 60X magnification.



MUSK Antibody (PA1-1741) in IHC (P)
Immunohistochemistry was performed on human skeletal muscle tissue. To expose target proteins, heat induced antigen retrieval was performed using 10mM sodium citrate (pH 6.0) buffer for 10 minutes using a microwave. Following antigen retrieval, tissues were blocked in 3% BSA-PBS for 30 minutes and then probed with (right panel) or without (left panel) a MuSK polyclonal antibody (Product # PA1-1741) at a dilution of 1:20 overnight at 4C in a humidified chamber. Tissues were washed extensively with TBS + 0.025% Triton X-100 (Product # 28314) and endogenous peroxidase activity quenched with Peroxidase Suppressor (Product # 35000) for 30 minutes at room temperature. Detection was performed using a goat anti-rabbit HRP secondary antibody (Product # 31460) followed by colorimetric detection using metal enhanced DAB (Product # 34065). Tissues were counterstained with hematoxylin and prepped for mounting.

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6 References

Western Blot (2)

FEBS letters

Interaction between ROR1 and MuSK activation complex in myogenic cells.

"PA1-1741 was used in Immunoprecipitation to identify MuSK as a ROR1 as a new interacting partner for MuSK and Dok-7, which may have an important role in myogenic cell signalling."

Authors: Karvonen H,Summala K,Niininen W,Barker HR,Ungureanu D

Year 2018

Species Human

The Journal of biological chemistry

Dimerization of the muscle-specific kinase induces tyrosine phosphorylation of acetylcholine receptors and their aggregation on the surface of myotubes.

"PA1-1741 was used in western blot to investigate the effect of MuSK dimerization on acetylcholine receptor's tyrosine phosphorylation and aggregation"

Authors: Hopf C,Hoch W

Year 1998

Species Mouse

Dilution 30 nM

Immunohistochemistry (1)

The Journal of neuroscience : the official journal of the Society for Neuroscience

The Agrin/MuSK signaling pathway is spatially segregated from the neuregulin/ErbB receptor signaling pathway at the neuromuscular junction.

"PA1-1741 was used in immunohistochemistry to investigate the distribution of protein components of the neuregulin /erbB receptor and agrin/MuSK pathways at NMJs of adult rat gastrocnemius muscle"

Authors: Trinidad JC,Fischbach GD,Cohen JB

Year 2000

Species Rat

Dilution 1:50

Immunocytochemistry (1)

eLife

A 3D culture model of innervated human skeletal muscle enables studies of the adult neuromuscular junction.

"PA1-1741 was used in Immunocytochemistry-immunoflourescence to evaluate and model 3D human neuromuscular junction de novo development or disease in culture."

Authors: Afshar Bakooshli M,Lippmann ES,Mulcahy B,Iyer N,Nguyen CT,Tung K,Stewart BA,van den Dorpel H, Fuehrmann T,Shoichet M,Bigot A,Pegoraro E,Ahn H,Ginsberg H,Zhen M,Ashton RS,Gilbert PM

Year 2019

Species Human

Dilution 1:50

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IP (2)