

Product datasheet for **AM06338SU-N**

MUSK Mouse Monoclonal Antibody [Clone ID: 10A4]

Product data:

Product Type:	Primary Antibodies
Clone Name:	10A4
Applications:	ELISA, IF, IHC
Recommended Dilution:	ELISA: 1/10000. Immunofluorescence: 1/200 - 1/1000. Immunohistochemistry on Paraffin Sections: 1/200 - 1/1000.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Purified recombinant extracellular fragment of human MUSK (aa24-209) fused with hIgGFc tag expressed in HEK293 cell line.
Specificity:	Recognizes MuSK (Muscle Specific Kinase) .
Formulation:	State: Ascites State: Ascitic fluid containing 0.03% sodium azide.
Conjugation:	Unconjugated
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Predicted Protein Size:	97 kDa
Gene Name:	muscle associated receptor tyrosine kinase
Database Link:	Entrez Gene 4593 Human O15146



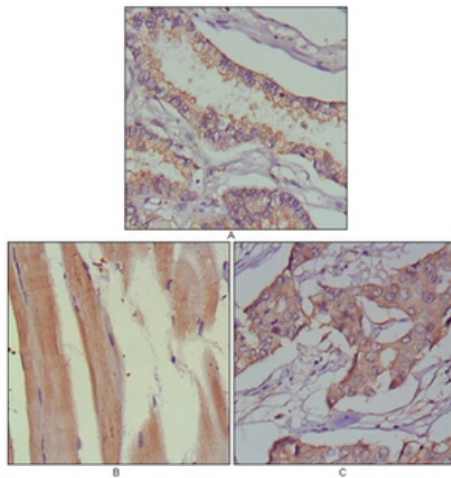
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Background:

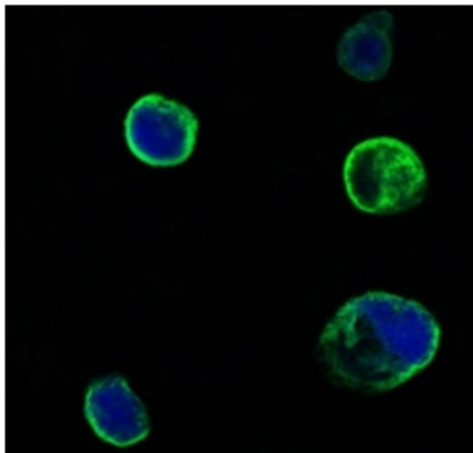
MuSK (for Muscle Specific Kinase) is a receptor tyrosine kinase required for the formation of the neuromuscular junction (NMJ). It induces cellular signaling by causing the addition of phosphate molecules to particular tyrosines on itself, and on proteins which bind the cytoplasmic domain of the receptor. It is activated by a nerve-derived proteoglycan called agrin. During development, the growing end of motor neuron axons secrete a protein called agrin. This protein binds to several receptors on the surface of skeletal muscle. The receptor which seems to be required for formation of the neuromuscular junction (NMJ), which comprises the nerve-muscle synapse is called MuSK. MUSK mutations lead to decreased agrin-dependent AchR aggregation, a critical step in the formation of the neuromuscular junction.

Synonyms:

Muscle-specific kinase receptor

Product images:


Immunohistochemical analysis of paraffin-embedded human lung cancer (A), muscles (B) and breast cancer (C) using MUSK antibody Cat.-No AM06338SU-N with DAB staining.



Confocal Immunofluorescence analysis of HEK293 cells transfected with extracellular MUSK (aa24-209)-hIgGfc using MUSK antibody Cat.-No AM06338SU-N (green). Blue: DRAQ5 fluorescent DNA dye.