



# MuSK Monoclonal Antibody

<b>Catalog No</b>	YP-Ab-12931
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human
<b>Applications</b>	IHC;IF;ELISA
<b>Gene Name</b>	MUSK
<b>Protein Name</b>	Muscle, skeletal receptor tyrosine-protein kinase
<b>Immunogen</b>	Purified recombinant extracellular fragment of human MuSK (aa24-209) fused with hlgGfc tag expressed in HEK293 cell line.
<b>Specificity</b>	MuSK Monoclonal Antibody detects endogenous levels of MuSK protein.
<b>Formulation</b>	Ascitic fluid containing 0.03% sodium azide,0.5% BSA, 50%glycerol.
<b>Source</b>	Monoclonal, Mouse
<b>Purification</b>	Affinity purification
<b>Dilution</b>	Immunohistochemistry: 1/200 - 1/1000. Immunofluorescence: 1/200 - 1/1000. ELISA: 1/10000. Not yet tested in other applications.
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	MUSK; Muscle; skeletal receptor tyrosine-protein kinase; Muscle-specific tyrosine-protein kinase receptor; MuSK; Muscle-specific kinase receptor
<b>Observed Band</b>	
<b>Cell Pathway</b>	Cell junction, synapse, postsynaptic cell membrane ; Single-pass type I membrane protein . Colocalizes with acetylcholine receptors (AChR) to the postsynaptic cell membrane of the neuromuscular junction. .
<b>Tissue Specificity</b>	
<b>Function</b>	catalytic activity:ATP + a [protein]-L-tyrosine = ADP + a [protein]-L-tyrosine phosphate.,disease:Defects in MUSK is a cause of autosomal recessive congenital myasthenic syndrome (CMS) [MIM:608931]. Congenital myasthenic syndromes are inherited disorders of neuromuscular transmission that stem from mutations in presynaptic, synaptic, or postsynaptic proteins. MUSK mutations lead to decreased agrin-dependent AChR aggregation, a critical step in the formation of the neuromuscular junction.,function:Receptor tyrosine kinase that is a key mediator of agrin's action and is involved in neuromuscular junction (NMJ) organization.,online information:MuSK entry,similarity:Belongs to the protein kinase superfamily. Tyr protein kinase family.,similarity:Contains 1 FZ (frizzled) domain.,similarity:Contains 1 protein kinase domain.,similarity:Contains 3 Ig-like C2-type (immunoglobulin-like) domains.,s

**Background**

This gene encodes a muscle-specific tyrosine kinase receptor. The encoded protein may play a role in clustering of the acetylcholine receptor in the postsynaptic neuromuscular junction. Mutations in this gene have been associated with congenital myasthenic syndrome. Alternatively spliced transcript variants have been described.[provided by RefSeq, Oct 2009],

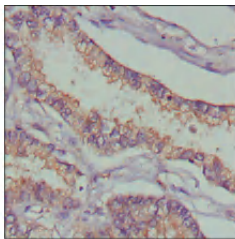
**matters needing attention**

Avoid repeated freezing and thawing!

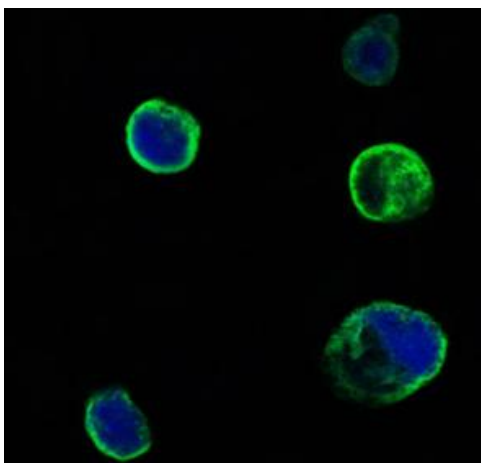
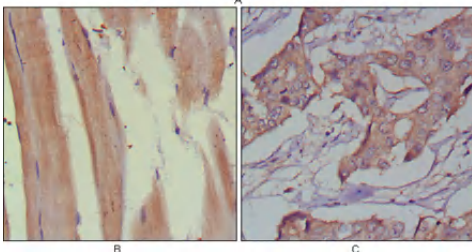
**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemistry analysis of paraffin-embedded human lung cancer (A), muscles (B) and breast cancer (C) with DAB staining using MuSK Monoclonal Antibody.



Confocal immunofluorescence analysis of HEK293 cells transfected with extracellular MUSK (aa24-209)-hIgGfc using MuSK Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.