

## MuSK Monoclonal Antibody

<b>Catalog No :</b>	YM0457
<b>Reactivity :</b>	Human
<b>Applications :</b>	IHC;IF;ELISA
<b>Target :</b>	MuSK
<b>Gene Name :</b>	MUSK
<b>Protein Name :</b>	Muscle, skeletal receptor tyrosine-protein kinase
<b>Human Gene Id :</b>	4593
<b>Human Swiss Prot No :</b>	O15146
<b>Mouse Swiss Prot No :</b>	Q61006
<b>Immunogen :</b>	Purified recombinant extracellular fragment of human MuSK (aa24-209) fused with hIgGFc tag expressed in HEK293 cell line.
<b>Specificity :</b>	MuSK Monoclonal Antibody detects endogenous levels of MuSK protein.
<b>Formulation :</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source :</b>	Monoclonal, Mouse
<b>Dilution :</b>	IHC 1:200 - 1:1000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other applications.
<b>Purification :</b>	Affinity purification
<b>Storage Stability :</b>	-15°C to -25°C/1 year(Do not lower than -25°C)
<b>P References :</b>	1. J Neuroimmunol. 2006 Aug;177(1-2):119-31. 2. Ann N Y Acad Sci. 2008;1132:76-83.
<b>Background :</b>	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],

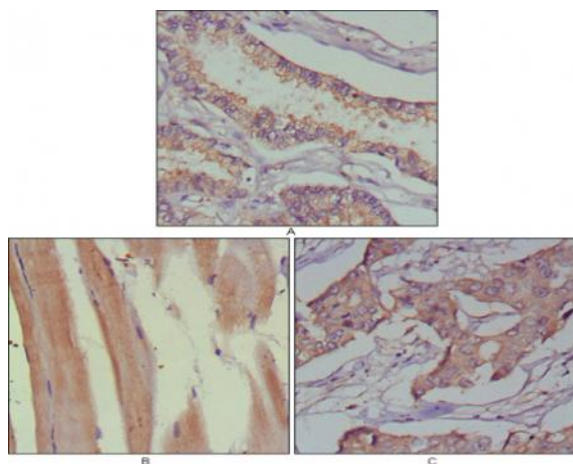
**Function :**

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

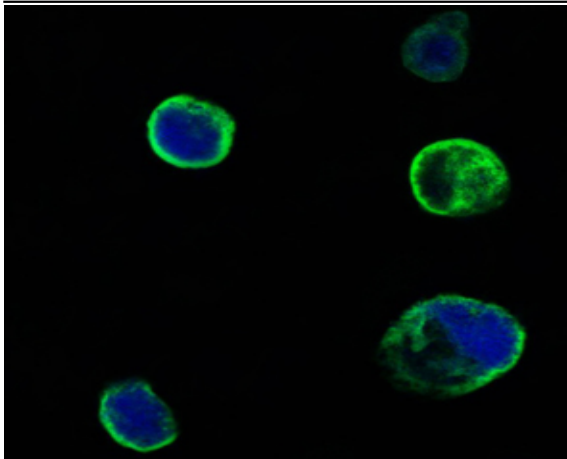
**Subcellular Location :**

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. .

## 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.