

MuSK Mouse mAb

CatalogNo: YM0457

Key Features

Host Species

- Mouse

Reactivity

- Human

Applications

- IHC,IF,ELISA

Recommended Dilution Ratios

IHC 1:200-1:1000

IF 1:200-1:1000

ELISA 1:10000

Not yet tested in other applications.

Storage

Storage*

-15°C to -25°C/1 year(Do not lower than -25°C)

Formulation

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Basic Information

Clonality

Monoclonal

Immunogen Information

Immunogen

Purified recombinant extracellular fragment of human MuSK (aa24-209) fused with hlgGfc tag expressed in HEK293 cell line.

Specificity

MuSK Monoclonal Antibody detects endogenous levels of MuSK protein.

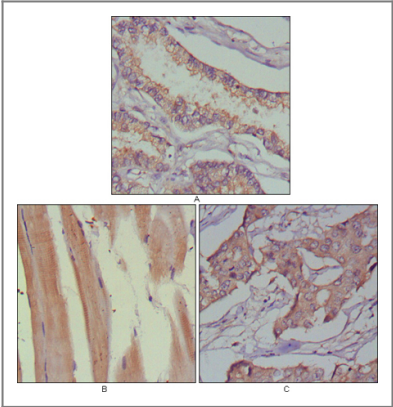
Target Information

Gene name

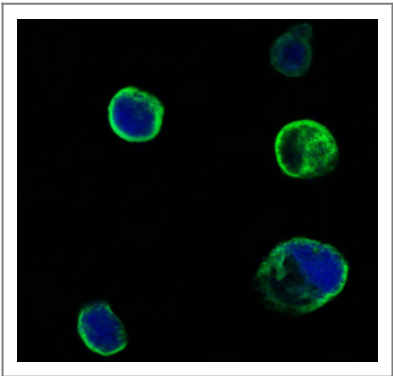
MUSK

Protein Name	Muscle, skeletal receptor tyrosine-protein kinase		
	Organism	Gene ID	UniProt ID
	Human	4593 ;	O15146 ;
	Mouse		Q61006 ;
Cellular Localization	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. .		
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.,subunit:Interacts with DOK7, which probably regulates its activity.,		

Validation Data



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 trasfected with extracellular MUSK (aa24-209)-hlgGfc using MuSK Monoclonal Antibody (green). Blue: DRAQ5 fluorescent DNA dye.

| Contact information

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product information:
MuSK Mouse mAb

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