

## **MuSK Monoclonal Antibody**

Catalog No: YM0457

Reactivity: Human

**Applications:** IHC;IF;ELISA

Target: MuSK

Gene Name: MUSK

**Protein Name:** Muscle, skeletal receptor tyrosine-protein kinase

O15146

Q61006

Human Gene Id: 4593

**Human Swiss Prot** 

No:

**Mouse Swiss Prot** 

No:

Immunogen: Purified recombinant extracellular fragment of human MuSK (aa24-209) fused

with hIgGFc tag expressed in HEK293 cell line.

**Specificity:** MuSK Monoclonal Antibody detects endogenous levels of MuSK protein.

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

**Source:** Monoclonal, Mouse

**Dilution:** IHC 1:200 - 1:1000. IF 1:200 - 1:1000. ELISA: 1:10000. Not yet tested in other

applications.

**Purification:** Affinity purification

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

**P References :** 1. J Neuroimmunol. 2006 Aug;177(1-2):119-31.

2. Ann N Y Acad Sci. 2008;1132:76-83.

**Background:** This gene encodes a muscle-specific tyrosine kinase receptor. The encoded

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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.

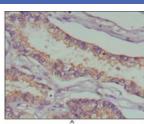
**Sort :** 10405

No4:

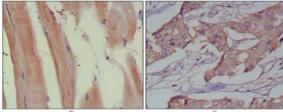
Host: Mouse

Modifications: Unmodified

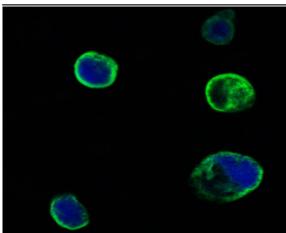
## **Products Images**



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