

Datasheet for ABIN969299  
**anti-MUSK antibody (AA 24-209)**[Go to Product page](#)

2 Images

1 Publication

## Overview

Quantity:	100 µL
Target:	MUSK
Binding Specificity:	AA 24-209
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This MUSK antibody is un-conjugated
Application:	ELISA, Immunohistochemistry (IHC), Immunocytochemistry (ICC)

## Product Details

Immunogen:	Purified recombinant extracellular fragment of human MUSK (aa24-209) fused with hIgGFc tag expressed in HEK293 cell line.
Clone:	10A4
Isotype:	IgG1
Purification:	purified

## Target Details

Target:	MUSK
Alternative Name:	MUSK ( <a href="#">MUSK Products</a> )
Background:	Description: MuSK (for Muscle Specific Kinase) is a receptor tyrosine kinase required for the

## Target Details

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.

Aliases: muscle, skeletal, receptor tyrosine kinase

Molecular Weight: 97 kDa

Gene ID: 4593

HGNC: 4593

Pathways: [RTK Signaling](#), [Regulation of Muscle Cell Differentiation](#), [Synaptic Membrane](#), [Regulation of Cell Size](#), [Skeletal Muscle Fiber Development](#)

## Application Details

Application Notes: ELISA: 1:10000, IHC: 1:200 - 1:1000, ICC: 1:200 - 1:1000

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Ascitic fluid containing 0.03 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

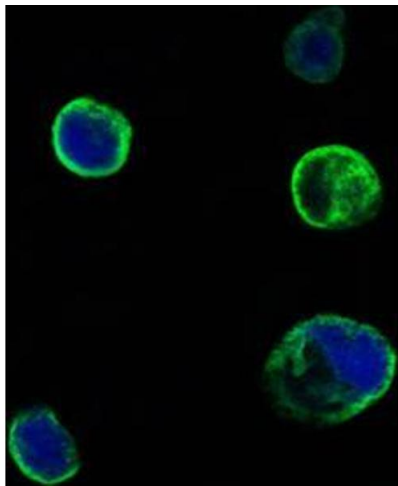
Storage: 4 °C/-20 °C

Storage Comment: 4°C, -20°C for long term storage

## Publications

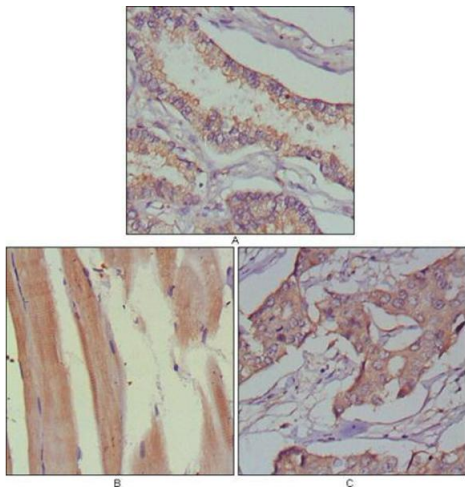
Product cited in: Wang, Wu, Zhou, Guo, Zheng, Wang, Bi, Liu, Zhou, Guo, Sha: "Mapping of the N-linked glycoproteome of human spermatozoa." in: **Journal of proteome research**, Vol. 12, Issue 12,

Images



Immunofluorescence

**Image 1.** Confocal immunofluorescence analysis of HEK293 cells trasfected with extracellular MUSK (aa24-209)-hlgGFc using MUSK mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.



Immunohistochemistry

**Image 2.** Immunohistochemical analysis of paraffin-embedded human lung cancer (A), muscles (B) and breast cancer (C) using MUSK mouse mAb with DAB staining.