

MUSK Ab

[Images\(2\)](#)

Cat.#: BF0667	Concn.: ~1mg/ml	Mol.Wt.: 97kDa
Size:	Source: Mouse	Clonality: Monoclonal

Application: ELISA 1:10000, IHC 1:200-1:1000, IF/ICC 1:200-1:1000
*The optimal dilutions should be determined by the end user.

Reactivity: Human

Storage: Mouse IgG1 in phosphate buffered saline (without Mg²⁺ and Ca²⁺), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. Store at -20 °C. Stable for 12 months from date of receipt.

Purification: Affinity-chromatography.

Immunogen: Purified recombinant fragment of human MUSK expressed in E. Coli.

Uniprot: O15146

Description: MuSK (for Muscle Specific Kinase) is a receptor tyrosine kinase required for the 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.

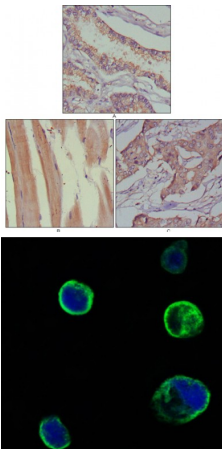


Figure 1: Immunohistochemical analysis of paraffin-embedded human lung cancer (A), muscles (B) and breast cancer (C) using MUSK mouse mAb with DAB staining.

Figure 2: Confocal immunofluorescence analysis of HEK293 cells transfected with extracellular MUSK (aa24-209)-hIgGfc using MUSK mouse mAb (green). Blue: DRAQ5 fluorescent DNA dye.



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