3050 Spruce Street
Saint Louis, Missouri 63103 USA
Telephone 800-325-5832 • (314) 771-5765
Fax (314) 286-7828
email: techserv@sial.com
sigma-aldrich.com

ProductInformation

Anti-Muscle-Specific Kinase (210-304)
(MuSK)
Developed in Rabbit, Affinity Isolated Antibody

Product Number **M 6568**

Product Description

Anti-Muscle-Specific Kinase (210-304) was developed in rabbit using a fusion protein containing residues 210-304 from the extracellular domain of rat MuSK as the immunogen. The antibody was affinity purified.

Anti-Muscle-Specific Kinase (210-304) detects muscle-specific kinase (MuSK) from mouse and rat tissue samples as well as COS7 cells transfected with rat MuSK. It has been successfully used in Western blot and immunoprecipitation procedures. By Western blot, this antibody detects an ~110 kDa protein representing MuSK from mouse C2C12 cell lysate.

MuSK has been shown to be specifically expressed in the muscle cells within the neuromuscular junction and plays an important role in the development and architectural maintenance of the neuromuscular junction. It has been shown to be part of the agrin signaling complex, and is the key component that mediates the synapse-inducing role of motoneuron-derived agrin at the neuromuscular junction.[1] MuSK is believed to be involved in seronegative myasthenia gravis, with the discovery of anti-MuSK antibodies, and in a type of congenital myasthenic syndrome.[2,3]

Reagent

The antibody is supplied as 200 µl of affinity purified antibody in PBS containing 1 mg/ml BSA, 10% glycerol, and 0.05% sodium azide as preservative.

Precautions and Disclaimer

Due to the sodium azide content, a material safety data sheet (MSDS) for this product has been sent to the attention of the safety officer of your institution. Consult the MSDS for information regarding hazards and safe handling.

Storage/Stability

Store at –20 °C. For extended storage, freeze in working aliquots. Avoid repeated freezing and thawing. Storage in "frost-free" freezers is not recommended. Centrifuge before use. Working dilution samples should be discarded if not used within 12 hours.

Product Profile

The recommended working dilution is 1:100 for immunoblotting.

Note: In order to obtain best results in different techniques and preparations we recommend determining optimal working concentration by titration test.

References

1. Hoch, W., Molecular dissection of neuromuscular junction formation, Trends Neurosci., **26,** 335-7 (2003).
2. McConville, J. and Vincent, A., Diseases of the neuromuscular junction, Curr. Opin. Pharmacol., **2,** 296-301 (2002).
3. Keesey, J.C., Clinical evaluation and management of myasthenia gravis, Muscle Nerve, **29**, 484-505 (2004).

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