

MuSK (Phospho-Tyr755) Antibody

Catalog No: #AB11837



Package Size: #AB11837-1 50ul #AB11837-2 100ul

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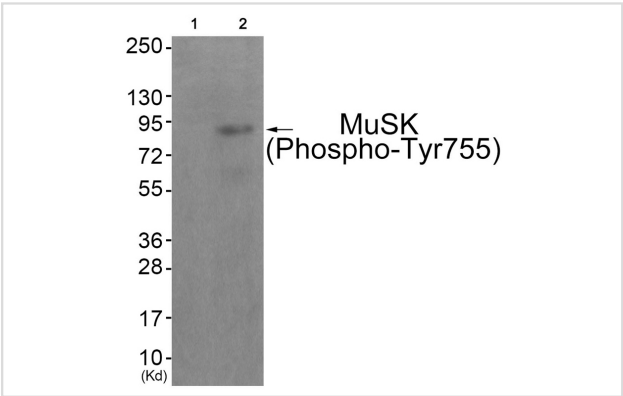
Description

| | |
|-----------------------|---|
| Product Name | MuSK (Phospho-Tyr755) Antibody |
| Host Species | Rabbit |
| Clonality | Polyclonal |
| Purification | Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatography using non-phosphopeptide. |
| Applications | WB |
| Species Reactivity | Hu |
| Specificity | The antibody detects endogenous levels of MuSK only when phosphorylated at tyrosine 755. |
| Immunogen Type | Peptide-KLH |
| Immunogen Description | Peptide sequence around phosphorylation site of tyrosine 755(A-D-Y(p)-Y-K) derived from Human MuSK . |
| Target Name | MuSK |
| Modification | Phospho-Tyr755 |
| Other Names | MUSK; Muscle; skeletal; |
| Accession No. | Swiss-Prot#: O15146; NCBI Gene#: 4593; NCBI Protein#: NP_005583.1. |
| SDS-PAGE MW | 97kd |
| Concentration | 1.0mg/ml |
| Formulation | Rabbit IgG in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol. |
| Storage | Store at -20°C/1 year |

Application Details

Western blotting: 1:500~1:1000

Images



Western blot analysis of extracts from JK cells (Lane 2), using MuSK (Phospho-Tyr755) Antibody #AB11837. The lane on the left is treated with antigen-specific peptide.

Background

Receptor tyrosine kinase which plays a central role in the formation and the maintenance of the neuromuscular junction (NMJ), the synapse between the motor neuron and the skeletal muscle. Recruitment of AGRIN by LRP4 to the MUSK signaling complex induces phosphorylation and activation of MUSK, the kinase of the complex. The activation of MUSK in myotubes regulates the formation of NMJs through the regulation of different processes including the specific expression of genes in subsynaptic nuclei, the reorganization of the actin cytoskeleton and the clustering of the acetylcholine receptors (AChR) in the postsynaptic membrane.

Valenzuela D.M., Neuron 15:573-584(1995).

Humphray S.J., Nature 429:369-374(2004).

Bergamin E., Mol. Cell 39:100-109(2010).

Note: This product is for in vitro research use only and is not intended for use in humans or animals.