

MuSK (Phospho-Tyr755) Antibody

Catalog No: #11837

Package Size: #11837-1 50ul #11837-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

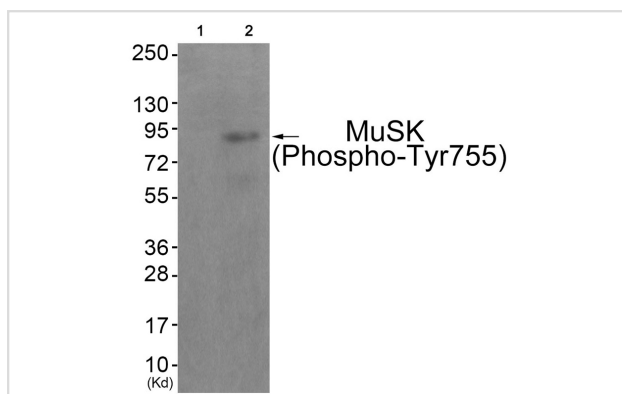
Description

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
Other Names	MUSK; Muscle; skeletal;
Accession No.	Swiss-Prot#: O15146; NCBI Gene#: 4593; NCBI Protein#: NP_005583.1.
Uniprot	O15146
GeneID	4593;
SDS-PAGE MW	97kd
Concentration	1.0mg/ml
Formulation	Rabbit IgG in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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 #11837. 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