bs-6473R **[Primary Antibody]**

MUSK Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 4593 **SWISS:** O15146

Target: MUSK

Immunogen: KLH conjugated synthetic peptide derived from human MUSK: 231-330/869. < Extracellular >

Purification: affinity purified by Protein A

Concentration: 1mg/ml

Storage: 0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Receptor tyrosine kinases (RTKs) represent an important class of transmembrane signaling molecules. Binding of the extracellular domain of an RTK to its cognate ligand leads to receptor dimerization and the activation of the intrinsic tyrosine kinase activity of its intracellular kinase domain. The specificity of this type of cellular communication is conferred in part by the distribution of the receptor, which determines the cells that are capable of responding to a given ligand. MuSK, for muscle-specific kinase, is an RTK that is uniquely specific to the skeletal muscle lineage. MuSK is expressed at low levels in proliferating myoblasts, but is induced upon terminal differentiation and myotube fusion. In the embryo, MuSK is expressed in developing muscle, but its level of expression is dramatically reduced in mature muscle, where it is abundant only at the neuromuscular junction. The human MuSK gene maps to chromosome 9q31.3, overlapping a region containing the Fukuyama muscular dystrophy mutation.

Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:50-200)
ICC/IF (1:100-500)

Reactivity: (predicted: Human, Mouse, Rat, Pig, Cow, Dog)

Predicted MW.: 97 kDa

Subcellular Location: Cell membrane

SELECTED CITATIONS

- **[IF=3.852]** Kevin Silva Muller. et al. Statin exposure during pregnancy promotes neuromuscular junction alterations in postpartum Wistar rats. MUSCLE NERVE. 2023 Apr;: WB ;Rat. 36975763
- **[IF=2.687]** Ana Paula Silveira Leite. et al. Acetylcholine receptors of the neuromuscular junctions present normal distribution after peripheral nerve injury and repair through nerve guidance associated with fibrin biopolymer. INJURY. 2022 Nov;: WB ;Fish. 36446670
- **[IF=2.106]** Carina Guidi Pinto. et al. Heterologous fibrin biopolymer associated to a single suture stitch enables the return of neuromuscular junction to its mature pattern after peripheral nerve injury. 2020 Oct 17 WB ;Rat. 10.1016/j.injury.2020.10.070