

## Product datasheet

# Anti-MUSK antibody ab55549

1 Image

### Overview

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<b>Product name</b>	Anti-MUSK antibody
<b>Description</b>	Mouse monoclonal to MUSK
<b>Tested applications</b>	<b>Suitable for:</b> WB
<b>Species reactivity</b>	<b>Reacts with:</b> Human
<b>Immunogen</b>	Recombinant fragment: ISIAEWSKPQ KDNKGCAQY RGEVCNAVLA KDALVFLNTS YADPEEAQEL LVHTAWNELK VVSPVCRPAA EALLCNHIFQ ECSPGVVPTP IPICREYCLA , corresponding to amino acids 301-400 of Human MUSK <a href="#">Run BLAST with ExPASy</a> <a href="#">Run BLAST with NCBI</a>

### General notes

Abcam is committed to meeting high standards of ethical manufacturing and as such, we will be discontinuing this product, which has been generated by the ascites method, within the next year. We are sorry for any inconvenience this may cause. If you would like help finding an alternative product, please do not hesitate to contact our scientific support team.

### Properties

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
<b>Storage buffer</b>	Preservative: None PBS, pH 7.2
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2a
<b>Light chain type</b>	kappa

### Applications

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Our [Abpromise guarantee](#) covers the use of **ab55549** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
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WB

#### Application notes

WB: Use at a concentration of 1-5 µg/ml.

Not yet tested in other applications.

Optimal dilutions/concentrations should be determined by the end user.

#### Target

#### Function

Receptor tyrosine kinase that is a key mediator of agrin's action and is involved in neuromuscular junction (NMJ) organization.

#### Involvement in disease

Defects in MUSK is a cause of congenital myasthenic syndrome with acetylcholine receptor deficiency (CMS-AChRD) [MIM:608931]. A post-synaptic congenital myasthenic syndrome. Mutations underlying AChR deficiency cause a 'loss of function' and show recessive inheritance. Note=MUSK mutations lead to decreased agrin-dependent AChR aggregation, a critical step in the formation of the neuromuscular junction.

#### Sequence similarities

Belongs to the protein kinase superfamily. Tyr protein kinase family. Contains 1 FZ (frizzled) domain. Contains 3 Ig-like C2-type (immunoglobulin-like) domains. Contains 1 protein kinase domain.

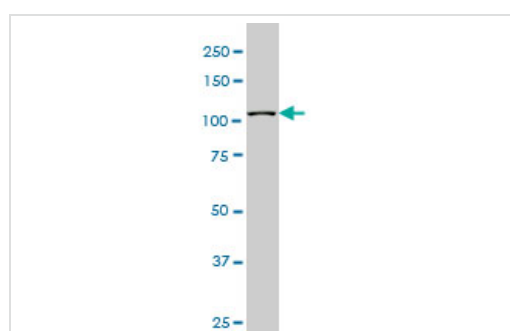
#### Post-translational modifications

Ubiquitinated by PDZRN3. Ubiquitination promotes endocytosis and lysosomal degradation.

#### Cellular localization

Membrane.

#### Images



Western blot - MUSK antibody (ab55549)

**Predicted band size :** 97 kDa

MUSK antibody (ab55549) at 1 µg/lane +

Jurkat cell lysate at 25 µg/lane.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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