

Product datasheet

Anti-MUSK antibody - N-terminal ab228488

[2 Images](#)

Overview

| | |
|----------------------------|---|
| Product name | Anti-MUSK antibody - N-terminal |
| Description | Rabbit polyclonal to MUSK - N-terminal |
| Host species | Rabbit |
| Tested applications | Suitable for: WB, IHC-P |
| Species reactivity | Reacts with: Human Predicted to work with: Mouse, Rat, Cow  |
| Immunogen | Recombinant fragment within Human MUSK (N terminal). The exact sequence is proprietary. Database link: O15146 |
| Positive control | WB: NT2/D1 whole cell lysate. IHC-P: Human breast cancer tissue. |

Properties

| | |
|-----------------------------|---|
| Form | Liquid |
| Storage instructions | Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. |
| Storage buffer | pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol |
| Purity | Immunogen affinity purified |
| Clonality | Polyclonal |
| Isotype | IgG |

Applications

Our [Abpromise guarantee](#) covers the use of **ab228488** in the following tested applications.

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

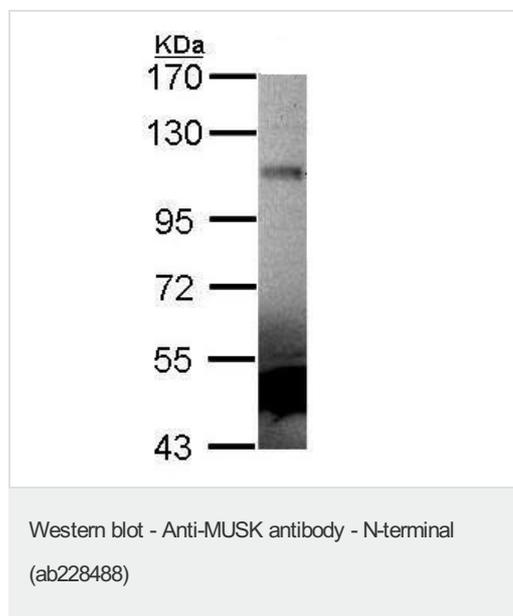
| Application | Abreviews | Notes |
|-------------|-----------|---|
| WB | | 1/500 - 1/3000. Predicted molecular weight: 97 kDa. |

| Application | Abreviews | Notes |
|-------------|-----------|-----------------|
| IHC-P | | 1/100 - 1/1000. |

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



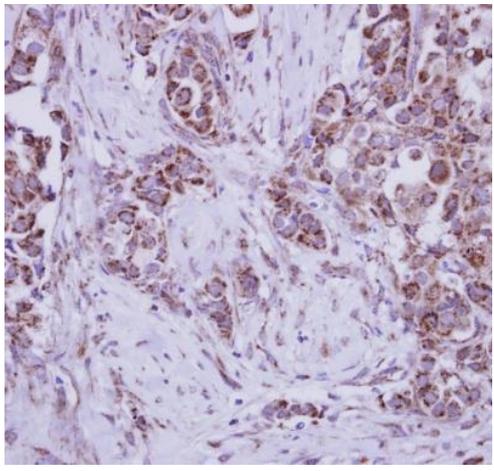
Anti-MUSK antibody - N-terminal (ab228488) at 1/1000 dilution + NT2/D1 (human embryonal testis carcinoma cell line) whole cell lysate

Secondary

HRP-conjugated anti-rabbit IgG antibody

Predicted band size: 97 kDa

7.5% SDS PAGE



Paraffin-embedded human breast cancer tissue stained for MUSK using ab228488 at 1/250 dilution in immunohistochemical analysis.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MUSK antibody - N-terminal (ab228488)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors