

Product datasheet

Anti-Nebulin antibody [NB2] ab11099

1 Abreviews 1 References

Overview

<b>Product name</b>	Anti-Nebulin antibody [NB2]
<b>Description</b>	Mouse monoclonal [NB2] to Nebulin
<b>Host species</b>	Mouse
<b>Specificity</b>	Does not cross react with titin. Monoclonal Anti-Nebulin reacts only with skeletal muscle, not with smooth muscle or different non-muscle tissues and cultured cells. The following is a summary of the antibody reactivity on various muscles in immunofluorescence using frozen section (a), isolated myofibrils (b), or immunoblotting (c): Fish skeletal muscle (a) (Torpedo spec.) + Toad skeletal muscle (a) (Bufo marinus) + Salamander skeletal muscle (c) (Ambystoma tigrina) + Salamander heart muscle (a) - Alligator skeletal muscle (a)(Alligator mississippiensis) + Pigeon skeletal muscle (b) (c) + Chicken skeletal muscle (b) (c) + Chicken heart muscle (c) - Chicken gizzard smooth muscle (c) - Mouse skeletal muscle (a) + Rat skeletal muscle (b) (c) + Rat heart muscle (a) - Rat rhabdomyosarcoma (a) + Rabbit skeletal muscle (b) + Bovine heart muscle (a) - Pig skeletal muscle (c) + Human skeletal muscle (a) +
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	Reacts with a wide range of species, including chicken, mouse rat, rabbit, cow, pig, human, salamander, pigeon, alligator, toad and fish. Not yet tested in other species.
<b>Immunogen</b>	Full length native protein (purified) (Chicken).
<b>General notes</b>	If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

Properties

<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: 15mM Sodium Azide Constituents: Ascites
<b>Purity</b>	Ascites
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	NB2
<b>Isotype</b>	IgG1

## Applications

Our [Abpromise guarantee](#) covers the use of **ab11099** 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		
ICC/IF		

### Application notes

IF: 1/400.

WB: Use at an assay dependent dilution. Detects a band of approximately 500 kDa.

By indirect immunofluorescence, the antibody shows a typical striated staining pattern of frozen sections of chicken skeletal muscle. It stains within the I-band and shows a decoration line at a distance of 0.22  $\mu\text{m}$  from the z-line in electron micrographs.

Not tested in other applications.

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

## Target

### Function

This giant muscle protein may be involved in maintaining the structural integrity of sarcomeres and the membrane system associated with the myofibrils. Bind and stabilize F-actin.

### Tissue specificity

Muscle specific. Located in the thin filament of striated muscle.

### Involvement in disease

Defects in NEB are the cause of nemaline myopathy type 2 (NEM2) [MIM:256030]. A form of nemaline myopathy. Nemaline myopathies are muscular disorders characterized by muscle weakness of varying severity and onset, and abnormal thread-or rod-like structures in muscle fibers on histologic examination.

### Sequence similarities

Contains 178 nebulin repeats.

Contains 1 SH3 domain.

### Cellular localization

Cytoplasm > myofibril > sarcomere. Cytoplasm > cytoskeleton.

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