

Product datasheet

Anti-Nebulin antibody [NB2] ab11099

[1 Abreviews](#) [1 References](#)

Overview

Product name	Anti-Nebulin antibody [NB2]
Description	Mouse monoclonal [NB2] to Nebulin
Host species	Mouse
Specificity	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) +
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	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.
Immunogen	Full length native protein (purified) (Chicken).
General notes	If slight turbidity occurs upon prolonged storage, clarify by centrifugation before use.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 15mM Sodium Azide Constituents: Ascites
Purity	Ascites
Clonality	Monoclonal
Clone number	NB2
Isotype	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 μm 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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