

Anti-Nebulin Antibody (Monoclonal, NB2)

Catalog # ABO10455

Product Information

Application	WB
Primary Accession	P20929
Host	Mouse
Isotype	Mouse IgG1
Clonality	Monoclonal
Format	Lyophilized
Description	Mouse IgG monoclonal antibody for Nebulin, nebulin (NEB) detection. Tested with WB in chicken. No cross reactivity with other proteins.
Reconstitution	Add 1ml of PBS buffer will yield a concentration of 100ug/ml.

Additional Information

Gene ID	4703
Other Names	Nebulin, NEB
Calculated MW	986665
Application Details	Western blot, 1-2 µg/ml, Chicken
Subcellular Localization	Cytoplasm, myofibril, sarcomere. Cytoplasm, cytoskeleton.
Tissue Specificity	Muscle specific. Located in the thin filament of striated muscle.
Source	Eukaryota
Protein Name	Nebulin
Contents	Mouse ascites fluid, 1.2% sodium acetate, 2mg BSA, with 0.01mg NaN ₃ as preservative.
Clone Names	NB2
Immunogen	Chicken breast nebulin.
Purification	Ascites
Cross Reactivity	No cross reactivity with other proteins
Storage	At -20 °C for one year. After reconstitution, at 4 °C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.
Sequence Similarities	Contains 178 nebulin repeats.

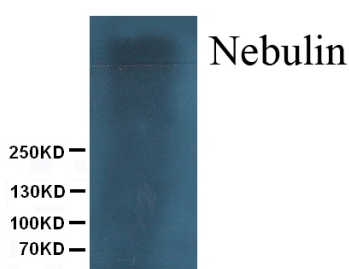
Protein Information

Name	NEB
Function	This giant muscle protein may be involved in maintaining the structural integrity of sarcomeres and the membrane system associated with the myofibrils. Binds and stabilize F-actin.
Cellular Location	Cytoplasm, myofibril, sarcomere. Cytoplasm, cytoskeleton
Tissue Location	Expressed in skeletal muscle (at protein level) (PubMed:23985323). Located in the thin filament of striated muscle (PubMed:9514727).

Background

Nebulin is a giant protein component of the cytoskeletal matrix that coexists with the thick and thin filaments within the sarcomeres of skeletal muscle. In most vertebrates, nebulin accounts for 3 to 4% of the total myofibrillar protein and its size varies from 600 to 800 kD in a manner that is tissue-, species-, and developmental stage-specific. The nebulin gene contains 183 exons in a 249-kb genomic region. Nebulin is mapped to chromosome 2. Nebulin is a giant filamentous protein specific for vertebrate skeletal muscles. Mutations in the nebulin gene associated with autosomal recessive nemaline myopathy.

Images



Anti- Nebulin antibody, ABO10455, Western blotting
All lanes: Anti Nebulin (ABO10455) at 0.5ug/ml
WB: Mouse Skeletal Muscle Tissue Lysate at 50ug
Predicted bind size: 773KD
Observed bind size: 773KD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.