

Product datasheet

Anti-BIN1 antibody ab153912

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Overview

Product name	Anti-BIN1 antibody
Description	Rabbit polyclonal to BIN1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Recombinant fragment corresponding to Human BIN1 aa 1-300. Database link: O00499-1
Positive control	A431 and Mouse kidney whole cell lysates; Human U87 xenograft tissue; A431 cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab153912 in the following tested applications.

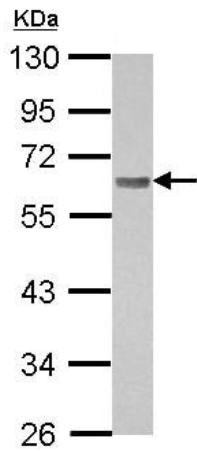
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 65 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

Target

Function	May be involved in regulation of synaptic vesicle endocytosis. May act as a tumor suppressor and inhibits malignant cell transformation.
Tissue specificity	Ubiquitous. Highest expression in the brain and muscle. Isoform IIA is expressed only in the brain where it is concentrated in axon initial segments and nodes of Ranvier. Isoform BIN1 is widely expressed with highest expression in skeletal muscle.
Involvement in disease	Defects in BIN1 are the cause of centronuclear myopathy autosomal recessive (ARCNM) [MIM:255200]; also known as autosomal recessive myotubular myopathy. Centronuclear myopathies are congenital muscle disorders characterized by progressive muscular weakness and wasting involving mainly limb girdle, trunk, and neck muscles. It may also affect distal muscles. Weakness may be present during childhood or adolescence or may not become evident until the third decade of life. Ptosis is a frequent clinical feature. The most prominent histopathologic features include high frequency of centrally located nuclei in muscle fibers not secondary to regeneration, radial arrangement of sarcoplasmic strands around the central nuclei, and predominance and hypotrophy of type 1 fibers.
Sequence similarities	Contains 1 BAR domain. Contains 1 SH3 domain.
Post-translational modifications	Phosphorylated by protein kinase C.
Cellular localization	Cytoplasm and Nucleus.

Images

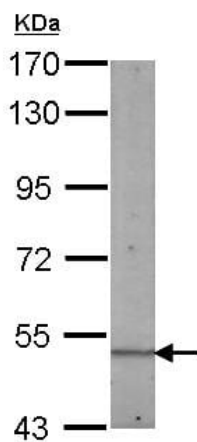


Western blot - Anti-BIN1 antibody (ab153912)

Anti-BIN1 antibody (ab153912) at 1/1000 dilution + A431 whole cell lysate at 30 µg

Predicted band size: 65 kDa

10% SDS PAGE

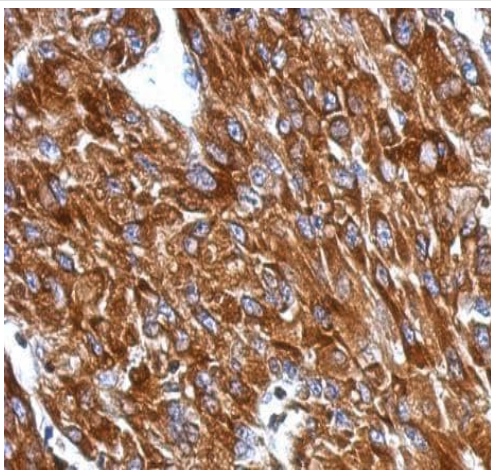


Western blot - Anti-BIN1 antibody (ab153912)

Anti-BIN1 antibody (ab153912) at 1/500 dilution + Mouse kidney whole cell lysate at 50 µg

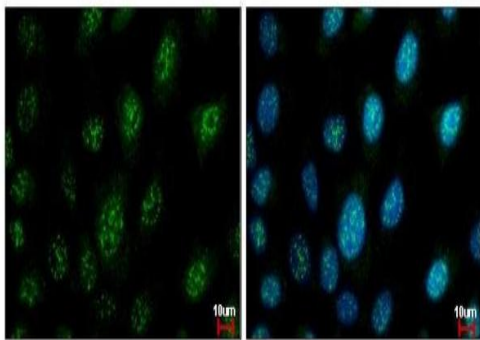
Predicted band size: 65 kDa

7.5% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BIN1 antibody (ab153912)

Immunohistochemical analysis of paraffin-embedded Human U87 xenograft tissue labeling BIN1 with ab153912 at 1/500 dilution.



Immunofluorescent analysis of A431 cells (fixed in iced cold MeOH; 5 mins) labeling BIN1 with ab153912 at 1/500 dilution (green). Right image shows cells co-stained with Hoechst 33342 (blue).

Immunocytochemistry/ Immunofluorescence - Anti-BIN1 antibody (ab153912)

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