abcam

Product datasheet

Anti-Bag3 antibody [EPR3515] ab92309

KO VALIDATED Recombinant RabMAb

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Overview

Product name	Anti-Bag3 antibody [EPR3515]
Description	Rabbit monoclonal [EPR3515] to Bag3
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP **Unsuitable for:** Flow Cyt or ICC/IF
Species reactivity	**Reacts with:** Mouse, Human
Immunogen	Synthetic peptide within Human Bag3 aa 50-150. The exact sequence is proprietary.
Positive control	293T, HeLa, MCF7 and K562 cell lysates. IP: Mouse heart lysate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**. Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR3515
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92309 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)**	1/1000 - 1/10000. Detects a band of approximately 80 kDa (predicted molecular weight: 62 kDa).
IP		1/10 - 1/100.

Application notes Is unsuitable for Flow Cyt or ICC/IF.

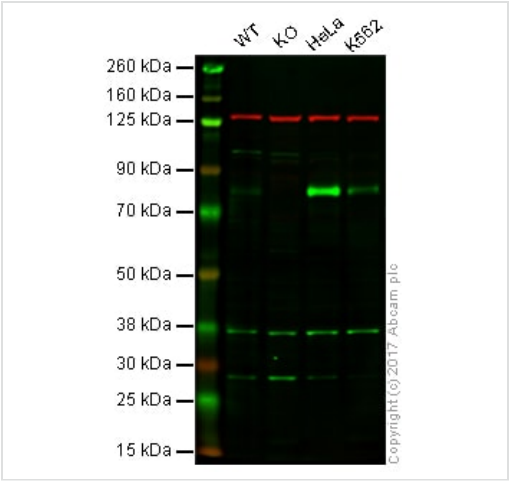
Target

Function Inhibits the chaperone activity of HSP70/HSC70 by promoting substrate release. Has anti-apoptotic activity.

Involvement in disease Defects in BAG3 are the cause of myopathy myofibrillar BAG3-related (MFM-BAG3) [MIM:612954]. A neuromuscular disorder that results in early-onset, severe, progressive, diffuse muscle weakness associated with cardiomyopathy, severe respiratory insufficiency during adolescence, and a rigid spine in some patients. At ultrastructural level, muscle fibers display structural alterations consisting of replacement of the normal myofibrillar markings by small, dense granules, or larger hyaline masses, or amorphous material.

Sequence similarities Contains 1 BAG domain.
Contains 2 WW domains.

Images

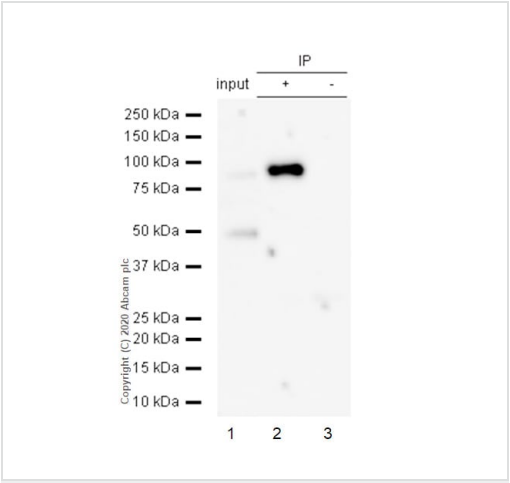


Western blot - Anti-Bag3 antibody [EPR3515] (ab92309)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: BAG3 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: K562 whole cell lysate (20 µg)

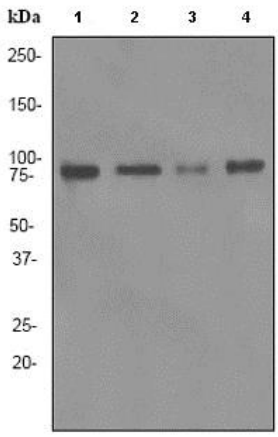
Lanes 1 - 4: Merged signal (red and green). Green - ab92309 observed at 80 kDa. Red - loading control, **ab18058**, observed at 130 kDa.

ab92309 was shown to recognize BAG3 in wild-type cells as signal was lost at the expected MW in BAG3 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and BAG3 knockout samples were subjected to SDS-PAGE. Ab92309 and **ab18058** (Mouse anti-Vinculin loading control) were incubated overnight at 4°C at 1 µg/ml and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preabsorbed **ab216776** secondary antibodies at 1/20000 dilution for 1 hour at room temperature before imaging.



Immunoprecipitation - Anti-Bag3 antibody [EPR3515] (ab92309)

Purified ab92309 at 1/50 dilution (2µg) immunoprecipitating Bag3 in Mouse heart lysate.
Lane 1 (input): Mouse heart lysate 10µg
Lane 2 (+): ab92309 + Mouse heart lysate.
Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab92309 in Mouse heart lysate.
VeriBlot for IP Detection Reagent (HRP) (**ab131366**) (1/1000 dilution) was used for Western blotting.
Blocking Buffer and concentration: 5% NFDM/TBST.
Diluting buffer and concentration: 5% NFDM/TBST.
Observed band size: 80 kDa



Western blot - Anti-Bag3 antibody [EPR3515] (ab92309)

All lanes : Anti-Bag3 antibody [EPR3515] (ab92309) at 1/1000 dilution

Lane 1 : 293T cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : MCF7 cell lysate
Lane 4 : K562 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 62 kDa
Observed band size: 80 kDa

Anti-Bag3 antibody [EPR3515] (ab92309)

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