Anti-Bag3 antibody ab47124

Overview

Product name: Anti-Bag3 antibody
Description: Rabbit polyclonal to Bag3
Host species: Rabbit
Tested applications: Suitable for: ICC/IF, IHC-P, IHC-Fr, WB, IP
Species reactivity: Reacts with: Mouse, Human
Immunogen: A recombinant protein fragment corresponding to the C terminal 196 amino acids of human BAG3.
Positive control: Muscle, PANC-1 pancreatic cell line (ATCC-CRL 1469)

Properties

Form: Liquid
Storage instructions: Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer: Preservative: 0.05% Sodium azide
Constituent: Whole serum
Purity: Whole antiserum
Clonality: Polyclonal
Isotype: IgG

Applications

Our Abpromise guarantee covers the use of ab47124 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
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<tbody>
<tr>
<td>ICC/IF</td>
<td>Use at an assay dependent concentration.</td>
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<tr>
<td>IHC-P</td>
<td>1/1000 - 1/5000.</td>
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<tr>
<td>IHC-Fr</td>
<td>Use at an assay dependent concentration.</td>
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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

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<tr>
<td>IP</td>
<td>1/50 - 1/200.</td>
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</table>

**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**

**All lanes**: Anti-Bag3 antibody (ab47124) at 1/2000 dilution

**Lane 1**: Thymus lysates, total protein (20µg/lane)
**Lane 2**: Spleen lysates, total protein (20µg/lane)
**Lane 3**: Skeletal(quadriceps) lysates, total protein (20µg/lane)
**Lane 4**: Skeletal(diaphragm) lysates, total protein (20µg/lane)
**Lane 5**: Smooth (heart) muscle lysates, total protein (20µg/lane)

**Predicted band size:** 62 kDa
**Observed band size:** 86 kDa

*why is the actual band size different from the predicted?*

Tissue lysates, normalized for total protein (20 µg/lane), were from a 4 week old male mouse. BAG3 expression was detected at highest levels in skeletal (quadriceps and diaphragm) and smooth (heart) muscle specimens.
ICC/IF image of ab47124 stained HeLa cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab47124) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 goat anti-rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.

Frozen mouse muscle tissue section stained for BAG3 expression using ab47124 at 1/2000. The tissue section was fixed in 3.8% paraformaldehyde prior to staining. BAG3 localizes with Z-disk proteins."

Anti-Bag3 antibody (ab47124) + Hela lysate at 0.5 mg/ml

**Predicted band size:** 62 kDa

Western blot - Anti-Bag3 antibody (ab47124)

Immunocytochemistry/Immunofluorescence of A431 cells stained with Anti-Bag3 antibody (ab47124) green. Nuclei and alpha-tubulin were counterstained with DAPI (blue) and DyLight 550 (red).

Immunocytochemistry/ Immunofluorescence - Anti-Bag3 antibody (ab47124)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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