

Product datasheet

Anti-GRP78 BiP antibody [3C5-1A4] ab212054

2 Images

Overview

Product name	Anti-GRP78 BiP antibody [3C5-1A4]
Description	Mouse monoclonal [3C5-1A4] to GRP78 BiP
Host species	Mouse
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant full length protein corresponding to Rat GRP78 BiP. Database link: P06761
Positive control	ICC/IF: NIH/3T3 cells. WB: NIH/3T3 and HEK-293 cell lysate; Rat brain lysate.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>Please check that this product meets your needs before purchasing. 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, as well as customer reviews and Q&As.</p>

Properties

Form	Liquid
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Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
Purity	Protein G purified
Clonality	Monoclonal
Clone number	3C5-1A4
Isotype	IgG1
Light chain type	kappa

Applications

Our [Abpromise guarantee](#) covers the use of **ab212054** in the following tested applications.

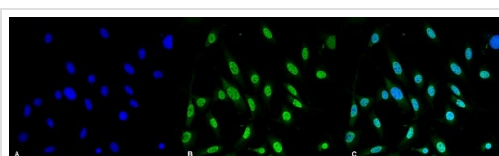
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 72 kDa.
ICC/IF		1/100.

Target

Function	Probably plays a role in facilitating the assembly of multimeric protein complexes inside the endoplasmic reticulum. Involved in the correct folding of proteins and degradation of misfolded proteins via its interaction with DNAJC10, probably to facilitate the release of DNAJC10 from its substrate.
Involvement in disease	Autoantigen in rheumatoid arthritis.
Sequence similarities	Belongs to the heat shock protein 70 family.
Cellular localization	Endoplasmic reticulum lumen. Melanosome. Cytoplasm. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

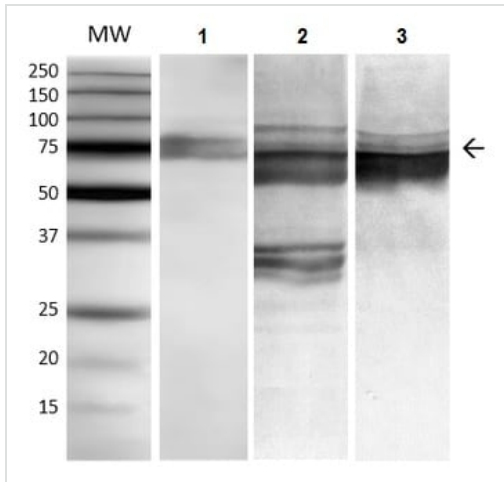
Images



Immunocytochemistry/ Immunofluorescence - Anti-GRP78 BiP antibody [3C5-1A4] (ab212054)

4% formaldehyde-fixed NIH/3T3 (mouse embryo fibroblast cell line) cells stained for GRP78 BiP (green) using ab212054 at 1/100 dilution in ICC/IF. Secondary: Goat Anti-Mouse 488 at 1/100 for 60 minutes at RT. Counterstain: DAPI (blue) nuclear stain at 1/5000 for 5 minutes RT.

(A) DAPI nuclear stain (B) ab212054 (C) Merge.



Western blot - Anti-GRP78 BiP antibody [3C5-1A4] (ab212054)

All lanes : Anti-GRP78 BiP antibody [3C5-1A4] (ab212054) at 1/1000 dilution

Lane 1 : NIH/3T3 (mouse embryo fibroblast cell line) cell lysate

Lane 2 : Rat brain lysate

Lane 3 : HEK-293 (human epithelial cell line from embryonic kidney) cell lysate

Secondary

All lanes : HRP Goat Anti-Mouse at 1/50 dilution

Predicted band size: 72 kDa

Blocking: 5% milk + TBST for 1 hour at RT.

Color Development: TMB solution for 5 minutes at RT.

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

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