

Product datasheet

Anti-Bif-1 antibody ab154236

[4 Images](#)

Overview

Product name	Anti-Bif-1 antibody
Description	Rabbit polyclonal to Bif-1
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human
Immunogen	Synthetic peptide corresponding to Human Bif-1 aa 302-365 (C terminal).
Positive control	H1299, NIH 3T3, JC, BCL1 whole cell lysates; 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: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab154236 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: 40 kDa.
IHC-P		1/100 - 1/1000.
ICC/IF		1/100 - 1/1000.

Target

Function

May be required for normal outer mitochondrial membrane dynamics (PubMed:15452144). Required for coatomer-mediated retrograde transport in certain cells (By similarity). May recruit other proteins to membranes with high curvature. May promote membrane fusion (PubMed:11604418). Involved in activation of caspase-dependent apoptosis by promoting BAX/BAK1 activation (PubMed:16227588). Isoform 1 acts proapoptotic in fibroblasts (By similarity). Involved in caspase-independent apoptosis during nutrition starvation and involved in the regulation of autophagy. Activates lipid kinase activity of PI3K3C3 during autophagy probably by associating with the PI3K complex II (PI3K3C-C2) (PubMed:17891140). Associated with PI3K3C-C2 during autophagy may regulate the trafficking of ATG9A from the Golgi complex to the peripheral cytoplasm for the formation of autophagosomes by inducing Golgi membrane tubulation and fragmentation (PubMed:21068542). Involved in regulation of degradative endocytic trafficking and cytokinesis, probably in the context of PI3K3C-C2 (PubMed:20643123). Isoform 2 acts antiapoptotic in neuronal cells; involved in maintenance of mitochondrial morphology and promotes neuronal viability.

Tissue specificity

Highly expressed in heart, skeletal muscle, kidney and placenta. Detected at lower levels in brain, colon, thymus, spleen, liver, small intestine, lung and peripheral blood leukocytes.

Sequence similarities

Belongs to the endophilin family.
Contains 1 BAR domain.
Contains 1 SH3 domain.

Domain

An N-terminal amphipathic helix, the BAR domain and a second amphipathic helix inserted into helix 1 of the BAR domain (N-BAR domain) induce membrane curvature and bind curved membranes.

The SH3 domain is required and sufficient for the interaction with UVRAG.

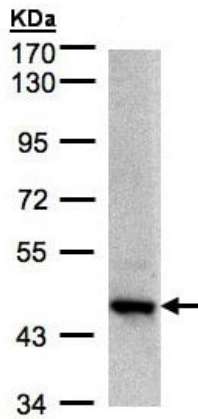
Post-translational modifications

Phosphorylated at Thr-145 by CDK5; this phosphorylation is required for autophagy induction in starved neurons and facilitates homodimerization.

Cellular localization

Cytoplasm. Golgi apparatus membrane. Mitochondrion outer membrane. Cytoplasmic vesicle, autophagosome membrane. Midbody. Association with the Golgi apparatus depends on the cell type (By similarity). Following starvation colocalizes with ATG5 and LC3 autophagy-related protein(s) on autophagosomal membranes (PubMed:17891140).

Images

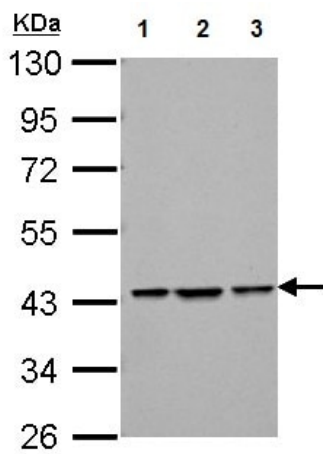


Western blot - Anti-Bif-1 antibody (ab154236)

Anti-Bif-1 antibody (ab154236) at 1/1000 dilution + H1299 whole cell lysate at 30 μ g

Predicted band size: 40 kDa

7.5% SDS PAGE



Western blot - Anti-Bif-1 antibody (ab154236)

All lanes : Anti-Bif-1 antibody (ab154236) at 1/1000 dilution

Lane 1 : NIH 3T3 whole cell lysate

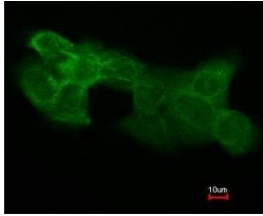
Lane 2 : JC whole cell lysate

Lane 3 : BCL1 whole cell lysate

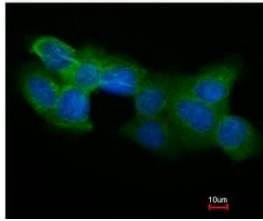
Lysates/proteins at 30 μ g per lane.

Predicted band size: 40 kDa

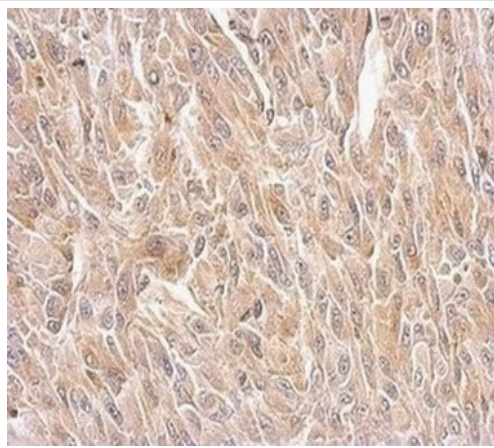
10% SDS PAGE



Immunofluorescent analysis of paraformaldehyde-fixed A431 cells labeling Bif-1 with ab154236 at 1/200 dilution. Lower panel merged with DNA probe.



Immunocytochemistry/ Immunofluorescence - Anti-Bif-1 antibody (ab154236)



Immunohistochemical analysis of paraffin-embedded U87 xenograft tissue labeling Bif-1 with ab154236 at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Bif-1 antibody (ab154236)

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