abcam

Product datasheet

Anti-ATG4D antibody ab237751

4 Images

Overview

Product name Anti-ATG4D antibody

Description Rabbit polyclonal to ATG4D

Host species Rabbit

Tested applications Suitable for: WB, IHC-P, ICC/IF

Species reactivity Reacts with: Mouse, Human

Immunogen Recombinant fragment corresponding to Human ATG4D aa 14-43.

Database link: Q86TL0

Positive control WB: A549, HeLa and SH-SY5Y whole cell lysates; Mouse heart tissue lysate. IHC-P: Human small

intestine and pancreatic tissues. ICC/IF: PC-3 cells.

General notesThe 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.

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

Properties

Form Liquid

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 pH: 7.40

Preservative: 0.03% Proclin 300

Constituents: 50% Glycerol (glycerin, glycerine), PBS

Purity Protein G purified

Purification notes Purity greater than 95%.

Clonality Polyclonal

Isotype IgG

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Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab237751 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 - 1/5000. Predicted molecular weight: 53 kDa.
IHC-P		1/500 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/50 - 1/500.

Target

Function	Cysteine protease required for autophagy, which cleaves the	ne C-terminal part of either MAP1LC3,
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GABARAPL2 or GABARAP, allowing the liberation of form I. A subpopulation of form I is subsequently converted to a smaller form (form II). Form II, with a revealed C-terminal glycine, is considered to be the phosphatidylethanolamine (PE)-conjugated form, and has the capacity for

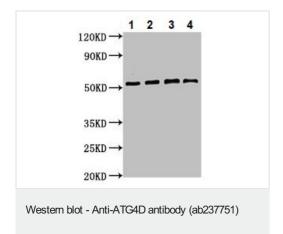
the binding to autophagosomes.

Tissue specificity Mainly expressed in skeletal muscle and, to a lower extent, in testis.

Sequence similarities Belongs to the peptidase C54 family.

Cellular localization Cytoplasm.

Images



All lanes: Anti-ATG4D antibody (ab237751) at 1/500 dilution

Lane 1: A549 (Human lung carcinoma cell line) whole cell lysate

Lane 2: HeLa (Human epithelial cell line from cervix

adenocarcinoma) whole cell lysate

Lane 3: SH-SY5Y (Human neuroblastoma cell line from bone

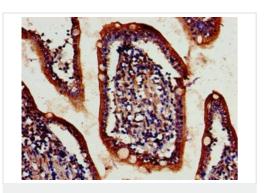
marrow) whole cell lysate

Lane 4: Mouse heart tissue lysate

Secondary

All lanes: Goat polyclonal to rabbit IgG at 1/50000 dilution

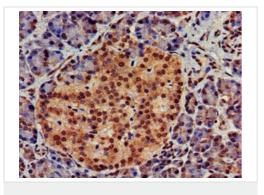
Predicted band size: 53 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ATG4D antibody (ab237751)

Paraffin-embedded human small intestine tissue stained for ATG4D using ab237751 at 1/700 dilution in immunohistochemical analysis.

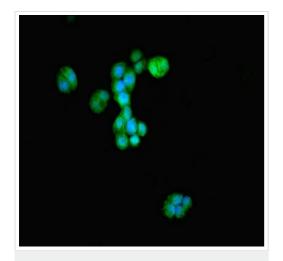
After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized tissue using an HRP conjugated SP system.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-ATG4D antibody (ab237751)

Paraffin-embedded human pancreatic tissue stained for ATG4D using ab237751 at 1/700 dilution in immunohistochemical analysis.

After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30 minutes at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a biotinylated secondary antibody and visualized tissue using an HRP conjugated SP system.



Immunocytochemistry/ Immunofluorescence - Anti-ATG4D antibody (ab237751)

PC-3 (Human prostate adenocarcinoma cell line) cells stained for ATG4D (green) using ab237751 at 1/100 dilution in ICC/IF, followed by an Alexa-Fluor[®]488 conjugated Goat Anti-Rabbit IgG (H+L).

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