

Datasheet for ABIN3030084
anti-ATG12 antibody (AA 1-50)

5 Images

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Overview

Quantity:	0.4 mL
Target:	ATG12
Binding Specificity:	AA 1-50
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG12 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF)

Product Details

Immunogen:	A portion of amino acids 1-50 from the human protein was used as the immunogen for this ATG12 antibody.
Isotype:	Ig Fraction
Purification:	Antigen affinity purified

Target Details

Target:	ATG12
Alternative Name:	ATG12 (ATG12 Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic constituents in eukaryotic cells, it is also responsible for the degradation of active cytoplasmic enzymes and organelles during nutrient starvation. Macroautophagy involves the formation of

Target Details

double-membrane bound autophagosomes which enclose the cytoplasmic constituent targeted for degradation in a membrane bound structure, which then fuse with the lysosome (or vacuole) releasing a single-membrane bound autophagic bodies which are then degraded within the lysosome (or vacuole).

APG12L/ATG12 is the human homolog of yeast APG12, a ubiquitin-activating enzyme E1-like protein essential for the conjugation system that mediates membrane fusion in autophagy.

UniProt: [O94817](#)

Pathways: [Autophagy](#)

Application Details

Application Notes: Titration of the ATG12 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,Immunofluorescence: 1:50-1:100

Restrictions: For Research Use only

Handling

Format: Liquid

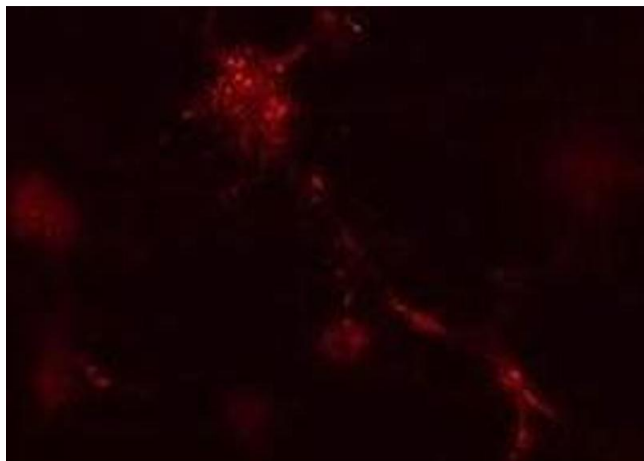
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: Aliquot the ATG12 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Immunofluorescence

Image 1. Mouse leukaemic monocyte macrophage cells treated with vinblastine for 1 hr. ATG12 antibody detected punctuate staining indicative of nascent autophagic vacuole structures.



Western Blotting

Image 2. Western blot analysis of ATG12 antibody and MCF-7 lysate.



Western Blotting

Image 3. Western blot analysis of ATG12 antibody and mouse brain tissue lysate

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3030084.