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Datasheet for ABIN3029987
anti-ATG7 antibody (AA 284-313)

5 Images

Overview

Quantity:	0.4 mL
Target:	ATG7
Binding Specificity:	AA 284-313
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATG7 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC), ELISA

Product Details

Immunogen:	A portion of amino acids 284-313 from the human protein was used as the immunogen for this APG7 antibody.
Isotype:	Ig Fraction
Cross-Reactivity (Details):	Expected species reactivity: Rat, Chicken
Purification:	Purified

Target Details

Target:	ATG7
Alternative Name:	ATG7 (APG7) (ATG7 Products)
Background:	Macroautophagy is the major inducible pathway for the general turnover of cytoplasmic

Target Details

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 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). APG7 functions as an E1 enzyme essential for multisubstrates such as GABARAPL1 and ATG12. APG3L is an E2-like conjugating enzyme facilitating covalent binding of APG8 (MAP1LC3) to phosphatidylethanolamine (PE). APG7 (an E1-like enzyme) facilitates this reaction by forming an E1-E2 complex with APG3. Formation of the PE conjugate is essential for autophagy.

UniProt: [O95352](#)

Pathways: [Response to Water Deprivation, Autophagy](#)

Application Details

Application Notes: Titration of the APG7 antibody may be required due to differences in protocols and secondary/substrate sensitivity.\. Western blot: 1:1000,IHC (Paraffin): 1:50-1:100

Restrictions: For Research Use only

Handling

Format: Liquid

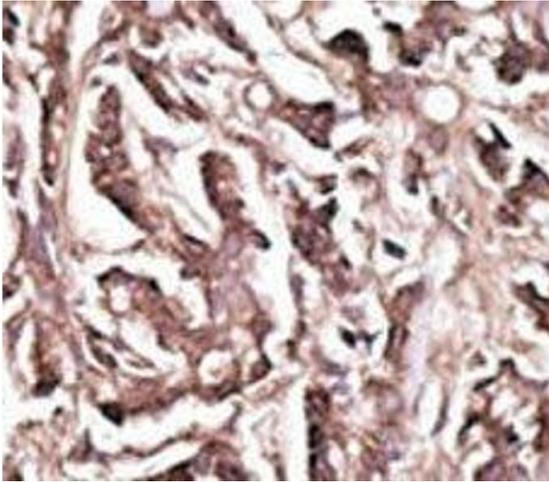
Buffer: In 1X PBS, pH 7.4, with 0.09 % sodium azide

Preservative: Sodium azide

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

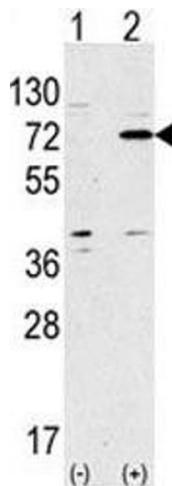
Storage: -20 °C

Storage Comment: Aliquot the APG7 antibody and store frozen at -20°C or colder. Avoid repeated freeze-thaw cycles.



Immunohistochemistry

Image 1. IHC analysis of FFPE human breast carcinoma tissue stained with the APG7 antibody



Western Blotting

Image 2. Western blot analysis of APG7 antibody and 293 lysate transiently transfected with the ATG7 gene.



Western Blotting

Image 3. Western blot testing of APG7 antibody and mouse liver tissue lysate. Predicted molecular weight: 70-80 kDa.

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN3029987.