

Antibody

Catalog #: AMRe07300



Summary

Atg7(Apg7) (18N11) Rabbit Monoclonal Antibody **Production Name**

Description Rabbit Monoclonal Antibody

Host Rabbit **Application** WB

Reactivity Human, Mouse, Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Monoclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Supplied in 50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40%Glycerol, 0.01% New type preservative N and 0.05% BSA.
Purification	Affinity purification

Immunogen

Gene Name ATG7

Alternative Names hAGP7; Ubiquitin-activating enzyme E1-like protein; APG7L;

Gene ID 10533.0

SwissProt ID O95352.A synthetic peptide of human Apg7

Application

Dilution Ratio WB 1:500-1:2000

Molecular Weight 78kDa

Background

Web: https://www.enkilife.com E-mail: order@enkilife.com techsupport@enkilife.com Tel: 0086-27-87002838



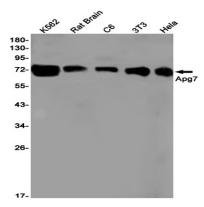
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Formation of the autophagosome involves a ubiquitin-like conjugation system in which Atq12 is covalently bound to Atq5 and targeted to autophagosome vesicles. This conjugation reaction is mediated by the ubiquitin E1-like enzyme Atq7 and the E2-like enzyme Atg10. E1-like activating enzyme involved in the 2 ubiquitin-like systems required for cytoplasm to vacuole transport (Cvt) and autophagy. Activates ATG12 for its conjugation with ATG5 as well as the ATG8 family proteins for their conjugation with phosphatidylethanolamine. Both systems are needed for the ATG8 association to Cvt vesicles and autophagosomes membranes. Required for autophagic death induced by caspase-8 inhibition. Required for mitophagy which contributes to regulate mitochondrial quantity and quality by eliminating the mitochondria to a basal level to fulfill cellular energy requirements and preventing excess ROS production. Modulates p53/TP53 activity to regulate cell cycle and survival during metabolic stress. Plays also a key role in the maintenance of axonal homeostasis, the prevention of axonal degeneration, the maintenance of hematopoietic stem cells, the formation of Paneth cell granules, as well as in adipose differentiation. Plays a role in regulating the liver clock and glucose metabolism by mediating the autophagic degradation of CRY1 (clock repressor) in a time-dependent manner (By similarity).

Research Area

Image Data



Western blot detection of Apq7 in K562, Rat Brain, C6, 3T3, Hela cell lysates using Apq7 antibody (1:1000 diluted).

Note

For research use only.

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