

Product datasheet

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ARG56862 anti-ATG7 antibody

Package: 100 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes ATG7

Tested Reactivity Hu, Ms, Rat

Tested Application ICC/IF, IHC-P

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name ATG7

Species Human

Immunogen Recombinant protein of Human ATG7.

Conjugation Un-conjugated

Alternate Names Ubiquitin-like modifier-activating enzyme ATG7; hAGP7; Autophagy-related protein 7; GSA7; Ubiquitin-

activating enzyme E1-like protein; APG7-LIKE; APG7-Like; ATG12-activating enzyme E1 ATG7

Application Instructions

Application table	Application	Dilution
	ICC/IF	1:50 - 1:100
	IHC-P	1:50 - 1:100
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HeLa	

Properties

Form Liquid

Purification Affinity purification with immunogen.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol ATG7

Gene Full Name autophagy related 7

Background This gene encodes an E1-like activating enzyme that is essential for autophagy and cytoplasmic to vacuole

transport. The encoded protein is also thought to modulate p53-dependent cell cycle pathways during prolonged metabolic stress. It has been associated with multiple functions, including axon membrane trafficking, axonal homeostasis, mitophagy, adipose differentiation, and hematopoietic stem cell maintenance. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Sep 2015] 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

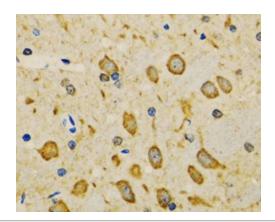
well as in adipose differentiation. [UniProt]

Calculated Mw 78 kDa

PTM Acetylated by EP300.

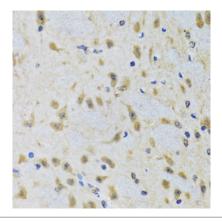
Images

Function



ARG56862 anti-ATG7 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Mouse brain tissue stained with ARG56862 anti-ATG7 antibody at 1:100 dilution.



ARG56862 anti-ATG7 antibody IHC-P image

Immunohistochemistry: Paraffin-embedded Rat brain tissue stained with ARG56862 anti-ATG7 antibody at 1:100 dilution (x40 lens).