

Product datasheet for TA383775

ATG7 Rabbit Monoclonal Antibody [Clone ID: R01-6E1]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R01-6E1
Applications:	IP, WB
Recommended Dilution:	WB: 1/2000-1/10000 IP: 1/20
Reactivity:	Human
Host:	Rabbit
lsotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human ATG7
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 78 kDa; Observed MW: 78 kDa
Gene Name:	autophagy related 7
Database Link:	<u>Entrez Gene 10533 Human</u> <u>O95352</u>



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OriGene Technologies, Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850, US Phone: +1-888-267-4436 https://www.origene.com techsupport@origene.com EU: info-de@origene.com CN: techsupport@origene.cn

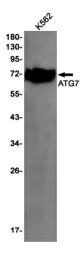
CRIGENE ATG7 Rabbit Monoclonal Antibody [Clone ID: R01-6E1] – TA383775

Background: Swiss-Prot Acc.O95352.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.

Synonyms:

APG7-LIKE; APG7L; DKFZp434N0735; GSA7; hAGP7

Product images:



Western blot analysis of ATG7 in K562 lysates using ATG7 antibody.

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