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Anti-ATG7 Rabbit mAb [56E53]

Catalog No.: A52011

Basic Information

Catalog No. (Cat.No.)	A52011
Host species	Rabbit
Reactivity	Human,Mouse,Rat
Applications	WB,IHC,IF,ELISA
Synonyms	ATG7,APG7-L,Apg7p,ATG7L1

Product Information

Target	ATG7
Molecular Weight(Calculated)	78 kDa
Molecular Weight(Observed)	78 kDa
Isotype	IgG,Kappa
Conjugation	NA
Concentration	0.2 mg/ml
Clonality	Monoclonal
Clone No.	56E53
RRID	NA
Storage buffer	50% Glycerol, 0.05% BSA and 0.05% preservative in PBS (pH 7.2-7.4)
Storage	Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles.
Shipped at conditions	Frozen
Form	Liquid

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Product Usage Information

Application	Dilution
WB	1:1000-1:5000
IHC	1:200-1:1000
IF	1:200-1:1000
ELISA	1:5000-1:20000

Target Information

Protein Name	Autophagy-related protein 7
Gene Name	*ATG7*
Domain	NA
Background	ATG7 (Autophagy Related Protein 7) is an essential ubiquitin-activating enzyme-like protein of the ATG superfamily, encoded by the ATG7 gene with a molecular weight of approximately 78 kDa, and serves as a core prerequisite factor for cellular autophagy. Ubiquitously expressed in mammalian cells, ATG7 primarily initiates and catalyzes autophagosome formation by mediating LC3 lipidation and ATG12-ATG5 complex assembly, which are indispensable steps for canonical macroautophagy. It participates in the degradation of damaged organelles, clearance of misfolded proteins, nutritional stress response and cellular homeostasis maintenance. Dysregulated ATG7 expression causes autophagy dysfunction, which is closely associated with tumorigenesis, neurodegeneration, metabolic injury and inflammatory disorders.