

Rabbit anti-Human ATG7 Monoclonal Antibody | anti-ATG7 antibody

[KD Validated] ATG7 Rabbit mAb

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA28516	Rabbit	Human	Western Blot, Immunohistochemistry, Immunoprecipitation, ELISA

PRODUCT SYNONYMS

ATG7; Monoclonal Antibody; [KD Validated] ATG7 Rabbit mAb; GSA7; [KD Validated] ATG7; anti-ATG7 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG
Purity/Purification	Affinity purification
Form/Format	PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH7.3.
Sequence	MAAATGDPGL SKLQFAPFSS ALDVGFWHEL TQKKLNEYRL DEAPKDIKG Y YNGDSAGLP ARLTLEFSAF DMSAPTPARC CPAIGTLYNT NTLESFKTAD
Applicable Applications for anti-ATG7 antibody	WB (Western Blot), IHC (Immunohistochemistry), IP (Immunoprecipitation), ELISA
Application Notes	WB: 1:1000-1:6000 IHC-P: 1:200-1:800 IP: 0.5ug-4ug antibody for 200ug-400ug extracts of whole cells ELISA: Recommended starting concentration is 1ug/mL. Please optimize the concentration based on your specific assay requirements.
Cross Reactivity	Human, Mouse, Rat
Immunogen	A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Atg7(Apg7)(O95352).
Preparation and Storage	Store at -20 degree C. Avoid freeze/thaw cycles.

IMAGES



IHC (Immunohistochemistry)

Immunohistochemistry analysis of paraffin-embedded Rat testis tissue using [KD Validated] ATG7 Rabbit mAb (AAA28516) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.



IHC (Immunohistochemistry)

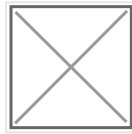
Immunohistochemistry analysis of paraffin-embedded Rat colon tissue using [KD Validated] ATG7 Rabbit mAb (AAA28516) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

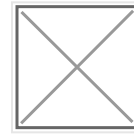
Immunohistochemistry analysis of paraffin-embedded Mouse testis tissue using [KD Validated] ATG7 Rabbit mAb (AAA28516) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded Human lung cancer tissue using [KD Validated] ATG7 Rabbit mAb (AAA28516) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**IHC (Immunohistochemistry)**

Immunohistochemistry analysis of paraffin-embedded Mouse brain tissue using [KD Validated] ATG7 Rabbit mAb (AAA28516) at a dilution of 1:500 (40x lens). High pressure antigen retrieval performed with 0.01M Tris-EDTA Buffer (pH 9.0) prior to IHC staining.

**WB (Western Blot)**

Western blot analysis of lysates from wild type(WT) and ATG7 knockdown (KD) HeLa cells using [KD Validated] ATG7 Rabbit mAb (AAA28516) at 1:1000 dilution incubated overnight at 4?.Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.Lysates/proteins: 25ug per lane.Blocking buffer: 3% nonfat dry milk in TBST.Detection: ECL Basic Kit (RM00020).Exposure time: 60s.

ADDITIONAL INFORMATION

Related Product Information for anti-ATG7 antibody	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.
Product Categories/Family for anti-ATG7 antibody	Cancer; Signal Transduction; Cell Biology Developmental Biology; Apoptosis; Autophagy; Ubiquitin; Endocrine Metabolism; Mitochondrial metabolism; Immunology Inflammation; Cardiovascular; Heart; Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	222144227
NCBI GeneID	10533
NCBI Accession #	NP_001129503.2
NCBI GenBank Nucleotide #	NM_001136031.2
UniProt Accession #	O95352; Q7L8L0; Q9BWP2; Q9UFH4; B4E170; E9PB95
Molecular Weight	Calculated MW: 78kDa Observed MW: 77kDa
UniProt Protein Name	Ubiquitin-like modifier-activating enzyme ATG7
UniProt Gene Name	ATG7
UniProt Synonym Gene Names	APG7L; APG7-like; hAGP7
UniProt Entry Name	ATG7_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/atg7-antibody-western-blot-immunohistochemistry-immunoprecipitation-elisa/28516>