Rabbit ATG7 Polyclonal Antibody | anti-ATG7 antibody

ATG7 Antibody: RPE

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA104175	**Rabbit**	**Human; Mouse; Rat**	**Immunofluorescence, Immunocytochemistry, Western Blot**

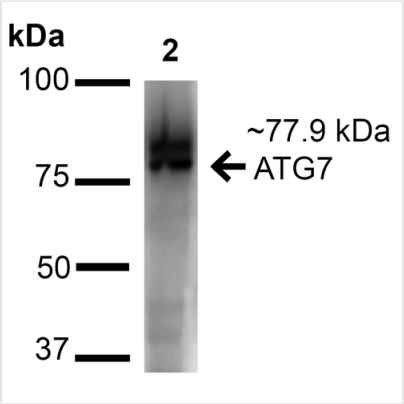
PRODUCT SYNONYMS

ATG7; Polyclonal Antibody; ATG7 Antibody: RPE; Rabbit Anti-Human ATG7 Polyclonal; Autophagy 7S. cerevisiae; homolog of Antibody; APG7 like Antibody; ATG7_HUMAN Antibody; hAGP7 Antibody; Ubiquitin-like modifier-activating enzyme ATG7 Antibody; Autophagy related protein 7 Antibody; Autophagy-related protein 7 Antibody; GSA 7 Antibody; APG7; S. cerevisiae; Ubiquitin-activating enzyme E1-like protein Antibody; Autophagy-related 7 (yeast) Antibody; APG7 autophagy 7 like Antibody; 1810013K23Rik Antibody; APG7 autophagy 7-like (S. cerevisiae) Antibody; ATG12-activating enzyme E1 ATG7 Antibody; ATG7 autophagy related 7 homolog Antibody; Atg7l Antibody; Ubiquitin activating enzyme E1 like protein Antibody; Apg 7 Antibody; APG7L Antibody; DKFZp434N0735 Antibody; ATG 7 Antibody; APG7-like Antibody; GSA7 Antibody; ATG7 autophagy related 7 homolog (S. cerevisiae) Antibody; ATG7 Antibody; anti-ATG7 antibody

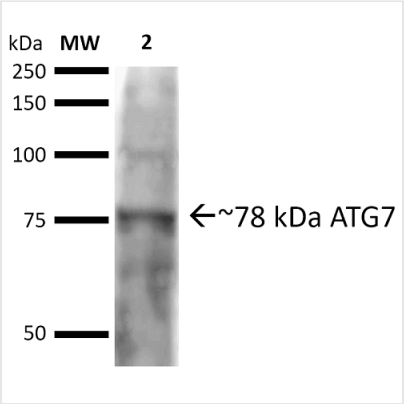
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human; Mouse; Rat
Clonality	Polyclonal
Specificity	Detects 77.9 kDa.
Purity/Purification	Peptide Affinity Purified
Concentration	1 mg/ml (varies by lot)
Sequence Length	676
Applicable Applications for anti-ATG7 antibody	IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Target	ATG7
Immunogen	Synthetic peptide from the N-terminal of Human ATG7
Immunogen Species	Human
Cellular Localization	Cytoplasm; Preautophagosomal Structure
Conjugate	RPE
Storage Buffer	PBS, 50% glycerol, 0.09% sodium azide
Tissue Specificity	Widely expressed, especially in kidney, liver, lymph nodes and bone marrow.
Preparation and Storage	Store at -20 degree C.

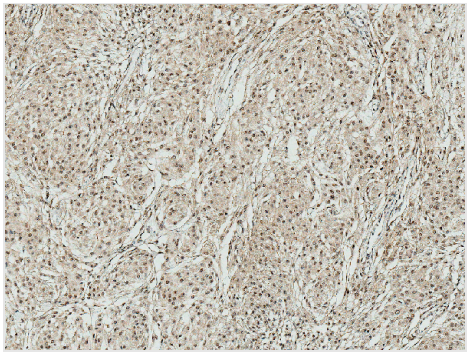
IMAGES



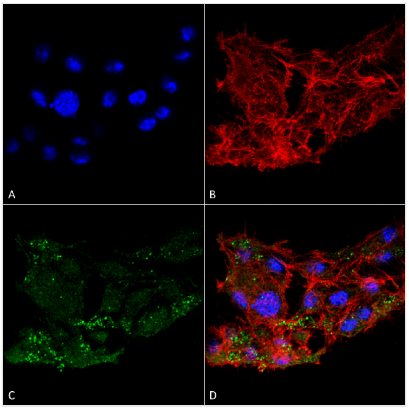
WB (Western Blot)
Western blot analysis of Human Cervical cancer cell line (HeLa) lysate showing detection of ~77.9 kDa ATG7 protein using Rabbit Anti-ATG7 Polyclonal Antibody . Lane 1: Molecular Weight Ladder (MW). Lane 2: Human Cervical cancer cell line (HeLa) lysate. Load: 15 ug. Block: 5% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-ATG7 Polyclonal Antibody at 1:1000 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~77.9 kDa.



WB (Western Blot)
Western blot analysis of Rat brain cell lysates showing detection of ~77.9 kDa ATG7 protein using Rabbit Anti-ATG7 Polyclonal Antibody . Lane 1: Molecular Weight Ladder (MW). Lane 2: Rat brain cell lysates. Load: 20 ug. Block: 2% BSA and 2% Skim Milk in 1X TBST. Primary Antibody: Rabbit Anti-ATG7 Polyclonal Antibody at 1:1000 for 16 hours at 4 degree C. Secondary Antibody: Goat Anti-Rabbit IgG: HRP at 1:2000 for 60 min at RT. Color Development: ECL solution for 6 min at RT. Predicted/Observed Size: ~77.9 kDa.



IHC (Immunohiostchemistry)
Immunohistochemistry analysis using Rabbit Anti-ATG10 Polyclonal Antibody . Tissue: Brain. Species: Human. Fixation: Formalin Fixed Paraffin-Embedded. Primary Antibody: Rabbit Anti-ATG10 Polyclonal Antibody at 1:50 for 30 min at RT. Counterstain: Hematoxylin. Magnification: 10X.



ICC (Immunocytochemistry)
Immunocytochemistry/Immunofluorescence analysis using Rabbit Anti-ATG7 Polyclonal Antibody . Tissue: Colon carcinoma cell line (RKO). Species: Human. Fixation: 4% Formaldehyde for 15 min at RT. Primary Antibody: Rabbit Anti-ATG7 Polyclonal Antibody at 1:100 for 60 min at RT. Secondary Antibody: Goat Anti-Rabbit ATTO 488 at 1:100 for 60 min at RT. Counterstain: Phalloidin Texas Red F-Actin stain; DAPI (blue) nuclear stain at 1:1000, 1:5000 for 60 min at RT, 5 min at RT. Localization: Cytoplasm, Preautophagosomal Structure, Organelle membrane. Magnification: 60X. (A) DAPI nuclear stain. (B) Phalloidin Texas Red F-Actin stain. (C) ATG7 Antibody. (D) Composite.

ADDITIONAL INFORMATION

Related Product Information for anti-ATG7 antibody	ATG7 in conjuction with ATG10, mediates the formation of the autophagosome when ATG12 is covalently bound to ATG5 and targets to autophagosome vesicles. It also activates ATG8, and is crucial for amino acid supply in neonates.
Product Categories/Family for anti-ATG7 antibody	Antibodies; Cancer; Apoptosis; Autophagy; Cardiovascular System; Heart
References	1. Mizushima N., et al. (1998) J Biol Chem. 273: 33889-92. 2. Mizushima N., et al. (1998) Nature. 395: 395-8. 3. Suzuki K., et al. (2001) EMBO J. 20: 5971-81. 4. Tanida I., et al. (1999) Mol Biol Cell. 10: 1367-79. 5. Shintani T., et al. (1999) EMBO J. 18: 5234-41.

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	68,618 Da
NCBI Official Full Name	ubiquitin-like modifier-activating enzyme ATG7 isoform b
NCBI Official Synonym Full Names	autophagy related 7
NCBI Official Symbol	ATG7
NCBI Official Synonym Symbols	GSA7; APG7L; APG7-LIKE
NCBI Protein Information	ubiquitin-like modifier-activating enzyme ATG7
UniProt Protein Name	Ubiquitin-like modifier-activating enzyme ATG7
UniProt Gene Name	**ATG7**
UniProt Synonym Gene Names	APG7L; APG7-like; hAGP7

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://www.aaabiotech.com/polyclonal/atg7-antibody-immunofluorescence-immunocytochemistry-western-blot-elisa/104175