Mouse anti-Human ATG5 Monoclonal Antibody | anti-ATG5 antibody

ATG5 (Autophagy Marker)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA215300	**Mouse**	**Human**	**Immunohistochemistry, Western Blot, ELISA**

PRODUCT SYNONYMS

ATG5; Monoclonal Antibody; ATG5 (Autophagy Marker); APG5 autophagy 5 like (APG5L); Apoptosis-specific protein (ASP); Autophagy related 5; hAPG5; anti-ATG5 antibody

PRODUCT SPECIFICATIONS

Host	Mouse
Reactivity	Human
Clonality	Monoclonal
Isotype	IgG1, kappa
Clone Number	ATG5/2553
Specificity	The protein encoded by this gene, in combination with autophagy protein 12, functions as an E1-like activating enzyme in a ubiquitin-like conjugating system. The encoded protein is involved in several cellular processes, including autophagic vesicle formation, mitochondrial quality control after oxidative damage, negative regulation of the innate antiviral immune response, lymphocyte development and proliferation, MHC II antigen presentation, adipocyte differentiation, and apoptosis. The ATG5 protein is essential for autophagy; a process that is usually beneficial for cells to self-degrade their own components when they are no longer useful.
Purity/Purification	Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml
Form/Format	200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.
Sequence Length	275
Applicable Applications for anti-ATG5 antibody	IHC (Immunohistochemistry), WB (Western Blot), ELISA
Positive Control	K562, U-87, A431, THP-1, PANC-1, Raji or HeLa cells. Ovary, Endometrium, Colon or Duodenum.
Immunogen	Recombinant fragment of human ATG5 protein (around aa 1-119) (exact sequence is proprietary)
Cellular Localization	Cytoplasmic
Hu-chromosome Location	17p11.2
Preparation and Storage	Antibody with azide: store at 2 to 8 degree C. Antibody without azide: store at -20 to -80 degree C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

IMAGES

WB (Western Blot)
Western Blot Analysis of K562, U-87, A431 cell lysates using ATG5 Mouse Monoclonal Antibody (ATG5/2553).

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Endometrium stained with ATG5 Mouse Monoclonal Antibody (ATG5/2553).

IHC (Immunohistochemisry)
Formalin-fixed, paraffin-embedded human Uterus stained with ATG5 Mouse Monoclonal Antibody (ATG5/2553).

WB (Western Blot)
Western Blot Analysis of THP-1 cell and human Brain tissue lysate using ATG5 Mouse Monoclonal Antibody (ATG5/2553).

IHC (Immunohistochemistry)
Formalin-fixed, paraffin-embedded human Brain stained with ATG5 Mouse Monoclonal Antibody (ATG5/2553).

ADDITIONAL INFORMATION

References	Lanza, F., et al. 1991. J. Biol. Chem. 266: 10638-10645.

NCBI AND UNIPROT INFORMATION

NCBI GI #	17366828
NCBI GeneID	9474
UniProt Accession #	Q9H1Y0
Molecular Weight	32kDa
NCBI Official Full Name	Autophagy protein 5
NCBI Official Synonym Full Names	autophagy related 5
NCBI Official Symbol	ATG5
NCBI Official Synonym Symbols	ASP; APG5; APG5L; hAPG5; SCAR25; APG5-LIKE
NCBI Protein Information	autophagy protein 5
UniProt Protein Name	Autophagy protein 5
UniProt Gene Name	**ATG5**
UniProt Synonym Gene Names	APG5L; ASP
UniProt Entry Name	ATG5_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/atg5-antibody-clone-atg5-2553-immunohistochemistry-western-blot-elisa/215300