

Rabbit ATG9A Polyclonal Antibody | anti-ATG9A antibody

Anti-ATG9A Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19280	Rabbit	Human, Mouse, Rat	Western Blot, Immunohistochemistry, Flow Cytometry, Functional Assay, ELISA

PRODUCT SYNONYMS

ATG9A; Polyclonal Antibody; Anti-ATG9A Antibody; APG9L1; Autophagy-related protein 9A; APG9-like 1; mATG9; autophagy related 9A; anti-ATG9A antibody

PRODUCT SPECIFICATIONS

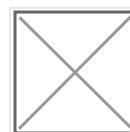
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Rabbit IgG polyclonal antibody for ATG9A detection.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4mg Trehalose, 0.9mg NaCl and 0.2mg Na2HPO4.
Applicable Applications for anti-ATG9A antibody	WB (Western Blot), IHC (Immunohistochemistry), FCM/FACS (Flow Cytometry), ELISA (Direct ELISA)
Application Notes	WB: 0.25-0.5ug/ml Human, Rat IHC-P: 2-5ug/ml Human, Mouse, Rat FC/FACS/FCM: 1-3ug/1x10 ⁶ cells Human Direct ELISA: 0.1-0.5ug/ml Human
Immunogen	E Coli-derived human ATG9A recombinant protein (Position: E22-R169).
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Recommended Detection Systems	Recommended Detection Systems
Preparation and Storage	Store at -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

IMAGES



FCM (Flow Cytometry)

Figure 7. Flow Cytometry analysis of HeLa cells using anti-ATG9A antibody (AAA19280). Overlay histogram showing HeLa cells stained with AAA19280 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-ATG9A Antibody (AAA19280, 1µg/1x10⁶ cells) for 30 min at 20 degree C. DyLight[®]488 conjugated goat anti-rabbit IgG (5-10µg/1x10⁶ cells) was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1µg/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IHC (Immunohistochemistry)

Figure 6. IHC analysis of ATG9A using anti-ATG9A antibody (AAA19280). ATG9A was detected in paraffin-embedded section of rat brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2µg/ml rabbit anti-ATG9A Antibody (AAA19280) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



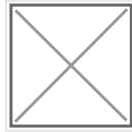
IHC (Immunohistochemistry)

Figure 5. IHC analysis of ATG9A using anti-ATG9A antibody (AAA19280).ATG9A was detected in paraffin-embedded section of mouse brain tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-ATG9A Antibody (AAA19280) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



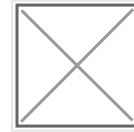
IHC (Immunohistochemistry)

Figure 4. IHC analysis of ATG9A using anti-ATG9A antibody (AAA19280).ATG9A was detected in paraffin-embedded section of human pancreatic cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-ATG9A Antibody (AAA19280) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 3. IHC analysis of ATG9A using anti-ATG9A antibody (AAA19280).ATG9A was detected in paraffin-embedded section of human gastric cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-ATG9A Antibody (AAA19280) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).



IHC (Immunohistochemistry)

Figure 2. IHC analysis of ATG9A using anti-ATG9A antibody (AAA19280).ATG9A was detected in paraffin-embedded section of human glioma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH8. 0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2μg/ml rabbit anti-ATG9A Antibody (AAA19280) overnight at 4 degree C. Biotinylated goat anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using Streptavidin-Biotin-Complex (SABC) (Catalog # with DAB as the chromogen).

ADDITIONAL INFORMATION

Related Product Information for anti-ATG9A antibody	Autophagy-related protein 9A is a protein that in humans is encoded by the ATG9A gene. ATG9A is the only transmembrane ATG protein essential for autophagy. It plays a key role in the organization of the preautophagosomal structure/phagophore assembly site (PAS). It has been reported that ATG9A expression is increased in oral squamous cell carcinoma and breast cancers. The inhibition of ATG9A can lead to an inhibition of cancer cell proliferation and invasion.
References	1. Yamada, T., Carson, A. R., Caniggia, I., Umehayashi, K., Yoshimori, T., Nakabayashi, K., Scherer, S. W. Endothelial nitric-oxide synthase antisense (NOS3AS) gene encodes an autophagy-related protein (APG9-like2) highly expressed in trophoblast. J. Biol. Chem. 280: 18283-18290, 2005.

NCBI AND UNIPROT INFORMATION

NCBI GI #	116089287
NCBI GeneID	79065
NCBI Accession #	NP_076990
NCBI GenBank Nucleotide #	NM_024085.4
UniProt Accession #	Q7Z3C6 ; Q3ZAQ6 ; Q6P0N7 ; Q7Z317 ; Q7Z320 ; Q8NDK6 ; Q8WU65 ; Q9BVL5 ; Q9H6L1 ; Q9HAG7
Molecular Weight	60,694 Da
NCBI Official Full Name	autophagy-related protein 9A
NCBI Official Synonym Full Names	autophagy related 9A
NCBI Official Symbol	ATG9A
NCBI Official Synonym Symbols	mATG9; APG9L1; MGD3208
NCBI Protein Information	autophagy-related protein 9A; APG9-like 1; APG9 autophagy 9-like 1; autophagy 9-like 1 protein; ATG9 autophagy related 9 homolog A
UniProt Protein Name	Autophagy-related protein 9A

UniProt Gene Name	ATG9A
UniProt Synonym Gene Names	APG9L1
UniProt Entry Name	ATG9A_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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/polyclonal/atg9a-antibody-western-blot-immunohistochemistry-flow-cytometry-direct-elisa-elisa/19280>