

Rabbit anti-Human SPG3A/ATL1 Polyclonal Antibody | anti-ATL1 antibody

Anti-SPG3A/ATL1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA19441	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, Western Blot

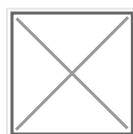
PRODUCT SYNONYMS

SPG3A/ATL1; Polyclonal Antibody; Anti-SPG3A/ATL1 Antibody Picoband; anti-ATL1 antibody

PRODUCT SPECIFICATIONS

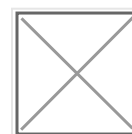
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Concentration	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml. (varies by lot)
Applicable Applications for anti-ATL1 antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), WB (Western Blot)
Application Notes	WB: 0.25-0.5 ug/ml, Human IHC-P: 2-5 ug/ml, Human FC/FACS: 1-3 ug/1x10 ⁶ cells, Human Tested Species: In-house tested species with positive results. Enhanced Chemiluminescent Kit with anti-Rabbit IgG for Western blot, and HRP Conjugated anti-Rabbit IgG Super Vision Assay Kit for IHC(P).
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500 ug/ml.
Immunogen	A synthetic peptide corresponding to a sequence of human SPG3A/ATL1 (DKPFLAPNDLQTKHLQ).
Preparation and Storage	Store at -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months. Avoid repeated freezing and thawing.

IMAGES



FCM (Flow Cytometry)

Figure 6. Flow Cytometry analysis of U87 cells using anti-SPG3A/ATL1 antibody (AAA19441). Overlay histogram showing U87 cells stained with AAA19441 (Blue line). The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-SPG3A/ATL1 Antibody (AAA19441, 1 ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1 ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



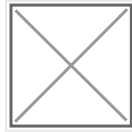
IHC (Immunohistochemistry)

Figure 5. IHC analysis of SPG3A/ATL1 using anti-SPG3A/ATL1 antibody (AAA19441). SPG3A/ATL1 was detected in a paraffin-embedded section of human stomach cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SPG3A/ATL1 Antibody (AAA19441) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



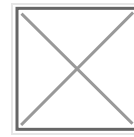
IHC (Immunohistochemistry)

Figure 4. IHC analysis of SPG3A/ATL1 using anti-SPG3A/ATL1 antibody (AAA19441).SPG3A/ATL1 was detected in a paraffin-embedded section of human lymphoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SPG3A/ATL1 Antibody (AAA19441) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



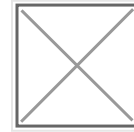
IHC (Immunohistochemistry)

Figure 2. IHC analysis of SPG3A/ATL1 using anti-SPG3A/ATL1 antibody (AAA19441).SPG3A/ATL1 was detected in a paraffin-embedded section of human adenocarcinoma of the right colon tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SPG3A/ATL1 Antibody (AAA19441) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 3. IHC analysis of SPG3A/ATL1 using anti-SPG3A/ATL1 antibody (AAA19441).SPG3A/ATL1 was detected in a paraffin-embedded section of human cervical cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2 ug/ml rabbit anti-SPG3A/ATL1 Antibody (AAA19441) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of SPG3A/ATL1 using anti-SPG3A/ATL1 antibody (AAA19441).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human SiHa whole cell lysates,Lane 3: human SH-SY5Y whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-SPG3A/ATL1 antigen affinity purified polyclonal antibody (#AAA19441) at 0.5 ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for SPG3A/ATL1 at approximately 64 kDa. The expected band size for SPG3A/ATL1 is at 64 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ATL1 antibody	Atlustin, or Atlustin-1, is a protein that in humans is encoded by the ATL1 gene. The protein encoded by this gene is a GTPase and a Golgi body transmembrane protein. The encoded protein can form a homotetramer and has been shown to interact with spastin and with mitogen-activated protein kinase kinase kinase 4. This protein may be involved in axonal maintenance as evidenced by the fact that defects in this gene are a cause of spastic paraplegia type 3. Three transcript variants encoding two different isoforms have been found for this gene.
Product Categories/Family for anti-ATL1 antibody	Primary Antibodies, Rabbit Polyclonal Antibodies

NCBI AND UNIPROT INFORMATION

NCBI GI #	189181742
NCBI GeneID	51062
NCBI Accession #	NP_001121185.1
NCBI GenBank Nucleotide #	NM_001127713.1
UniProt Accession #	Q8WXF7; Q95890; Q69YH7; Q96FK0; A6NND5; A8K2C0; G5E9T1
Molecular Weight	63,055 Da
NCBI Official Full Name	atlustin-1 isoform b
NCBI Official Synonym Full Names	atlustin GTPase 1
NCBI Official Symbol	ATL1
NCBI Official Synonym Symbols	FSP1; GBP3; SPG3; HSN1D; SPG3A; AD-FSP; atlustin1
NCBI Protein Information	atlustin-1

UniProt Protein Name	Atlastin-1
UniProt Gene Name	ATL1
UniProt Synonym Gene Names	GBP3; SPG3A; GBP-3; hGBP3

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/polyclonal/spg3a-atl1-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/19441>