

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

Anti-ATL1 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127091	Rabbit	Human	ELISA, Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

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

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
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 .
Applicable Applications for anti-ATL1 antibody	ELISA, FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	E coli-derived human ATL1 recombinant protein (Position: E24-Q552). Human ATL1 shares 97.5% and 98.3% amino acid (aa) sequence identity with mouse and rat ATL1, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	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/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of SH-SY5Y cells using anti-ATL1 antibody (AAA127091). Overlay histogram showing SH-SY5Y cells stained with AAA127091 (Blue line). The cells were fixed with 4% paraformaldehyde and blocked with 10% normal goat serum. And then incubated with rabbit anti-ATL1 Antibody (AAA127091, 1ug/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 (1ug/1x10⁶) used under the same conditions. Unlabelled sample (Red line) was also used as a control.



IF (Immunofluorescence)

Figure 2. IF analysis of ATL1 using anti-ATL1 antibody (AAA127091). ATL1 was detected in an immunocytochemical section of U2OS cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-ATL1 Antibody (AAA127091) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of ATL1 using anti-ATL1 antibody (AAA127091). 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, Lane 4: human U2OS 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-ATL1 antigen affinity purified polyclonal antibody (#AAA127091) at 0.5ug/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 ATL1 at approximately 64 kDa. The expected band size for ATL1 is at 64 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ATL1 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-ATL1 antibody	Primary Antibodies
References	1. Abel, A., Fonknechten, N., Hofer, A., Durr, A., Cruaud, C., Voit, T., Weissenbach, J., Brice, A., Klimpe, S., Auburger, G., Hazan, J. Early onset autosomal dominant spastic paraplegia caused by novel mutations in SPG3A. Neurogenetics 5: 239-243, 2004. 2. Beetz, C., Nygren, A. O. H., Deufel, T., Reid, E. An SPG3A whole gene deletion neither co-segregates with disease nor modifies phenotype in a hereditary spastic paraplegia family with a pathogenic SPG4 mutation. (Letter) Neurogenetics 8: 317-318, 2007. 3. D'Amico, A., Tessa, A., Sabino, A., Bertini, E., Santorelli, F. M., Servidei, S. Incomplete penetrance in an SPG3A-linked family with a new mutation in the atlastin gene. Neurology 62: 2138-2139, 2004.

NCBI AND UNIPROT INFORMATION

NCBI GI #	189181742
NCBI GeneID	51062
NCBI Accession #	NP_001121185.1
NCBI GenBank Nucleotide #	NM_001127713.1
UniProt Accession #	Q8WXF7; O95890; Q69YH7; Q96FK0; A6NND5; A8K2C0; G5E9T1
Molecular Weight	63,055 Da
NCBI Official Full Name	atlastin-1 isoform b
NCBI Official Synonym Full Names	atlastin GTPase 1
NCBI Official Symbol	ATL1
NCBI Official Synonym Symbols	FSP1; GBP3; SPG3; HSN1D; SPG3A; AD-FSP; atlastin1
NCBI Protein Information	atlastin-1
UniProt Protein Name	Atlastin-1
UniProt Gene Name	ATL1
UniProt Synonym Gene Names	GBP3; SPG3A; GBP-3; hGBP3

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AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/polyclonal/at11-antibody-flow-cytometry-immunofluorescence-immunocytochemistry-western-blot-elisa/127091>