

ATL1
Purified Mouse Monoclonal Antibody
Catalog # AO2531a**Specification**

ATL1 - Product Information

Application	E, WB
Primary Accession	Q8WXF7
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse IgG1
Calculated MW	63.5kDa KDa
Immunogen	

Purified recombinant fragment of human ATL1 (AA: 1-100) expressed in E. Coli.

Formulation

Purified antibody in PBS with 0.05% sodium azide

ATL1 - Additional Information

Gene ID 51062

Other Names

FSP1; GBP3; SPG3; HSN1D; SPG3A; AD-FSP; atlastin1

Dilution

E~~ 1/10000

WB~~ 1/500 - 1/2000

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

ATL1 is for research use only and not for use in diagnostic or therapeutic procedures.

ATL1 - Protein Information

Name ATL1

Synonyms GBP3, SPG3A

Function

GTPase tethering membranes through formation of trans- homooligomers and mediating homotypic fusion of endoplasmic reticulum membranes. Functions in endoplasmic reticulum tubular network biogenesis (PubMed:<a href="http://www.uniprot.org/citations/27619977"

target="_blank">27619977). May also regulate Golgi biogenesis. May regulate axonal development.

Cellular Location

Endoplasmic reticulum membrane; Multi-pass membrane protein. Golgi apparatus membrane; Multi-pass membrane protein. Cell projection, axon {ECO:0000250|UniProtKB:Q6PST4}.

Note=Localizes to endoplasmic reticulum tubular network (PubMed:27619977)

Tissue Location

Expressed predominantly in the adult and fetal central nervous system. Measurable expression in all tissues examined, although expression in adult brain is at least 50-fold higher than in other tissues. Detected predominantly in pyramidal neurons in the cerebral cortex and the hippocampus of the brain. Expressed in upper and lower motor neurons (at protein level)

ATL1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

ATL1 - Images

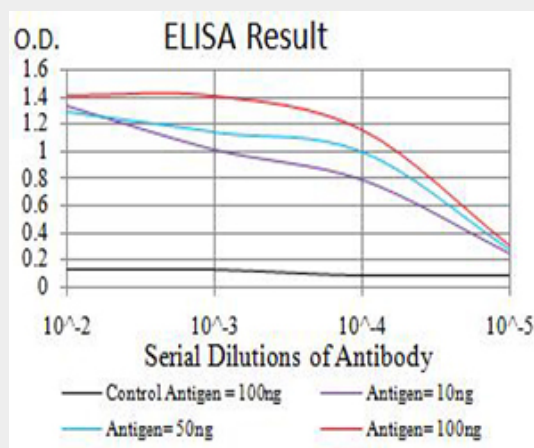


Figure 1: Black line: Control Antigen (100 ng); Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line: Antigen (100 ng)

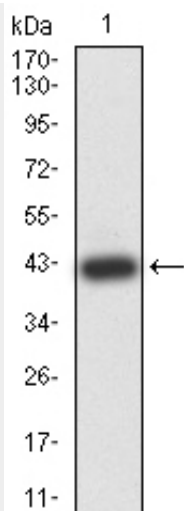


Figure 2:Western blot analysis using ATL1 mAb against human ATL1 (AA: 1-100) recombinant protein. (Expected MW is 41.3 kDa)

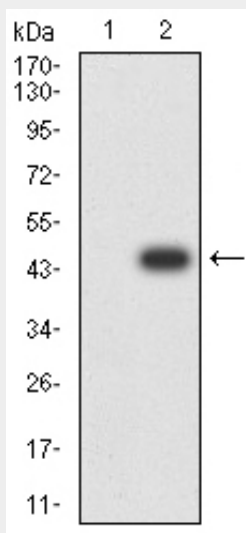


Figure 3:Western blot analysis using ATL1 mAb against HEK293 (1) and ATL1 (AA: 1-100)-hlgGfc transfected HEK293 (2) cell lysate.

ATL1 - References

1.Eur J Hum Genet. 2014 Oct;22(10):1180-4. 2.Mol Biol Cell. 2015 May 1;26(9):1616-28. doi: 10.1091/mbc.E14-10-1447.