

Rabbit ATL1 Polyclonal Antibody | anti-ATL1 antibody

ATL1 Antibody (C-term)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284554	Rabbit	Human (Predicted Reactivity: Bovine, Monkey, Mouse, Rat)	ELISA, Western Blot

PRODUCT SYNONYMS

ATL1; Polyclonal Antibody; ATL1 Antibody (C-term); Atlastin-1; 365-; Brain-specific GTP-binding protein; GTP-binding protein 3; GBP-3; hGBP3; Guanine nucleotide-binding protein 3; Spastic paraplegia 3 protein A; GBP3; SPG3A; anti-ATL1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Bovine, Monkey, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Clone Number	RB36288
Specificity	This ATL1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 477-504 amino acids from the C-terminal region of human ATL1.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Sequence Positions	477-504
Applicable Applications for anti-ATL1 antibody	ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
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:). 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)
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



WB (Western Blot)
ATL1 Antibody (C-term) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the ATL1 antibody detected the ATL1 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-ATL1 antibody	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	Neuroscience
References	Cirulli, E.T., et al. Eur. J. Hum. Genet. 18(7):815-820(2010) Park, S.H., et al. J. Clin. Invest. 120(4):1097-1110(2010) Yoshida, T., et al. Int. J. Mol. Med. 25(4):649-656(2010) de Leva, M.F., et al. J. Neurol. 257(3):328-331(2010) Oguri, M., et al. Am. J. Hypertens. 23(1):70-77(2010)

NCBI AND UNIPROT INFORMATION

NCBI GI #	189181742
NCBI GeneID	51062
NCBI Accession #	NP_001121185.1; NP_056999.2; NP_853629.2
NCBI GenBank Nucleotide #	NM_001127713.1
UniProt Accession #	Q8WXF7; O95890; Q69YH7; Q96FK0; A6NND5; A8K2C0; G5E9T1
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
UniProt Entry Name	ATLA1_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.