

Product datasheet

Anti-SPG3A/ATL1 antibody ab229582

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Overview

Product name	Anti-SPG3A/ATL1 antibody
Description	Rabbit polyclonal to SPG3A/ATL1
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Cow, Rhesus monkey 
Immunogen	Recombinant fragment within Human SPG3A/ATL1 (internal sequence). The exact sequence is proprietary. Database link: Q8WXF7
Positive control	WB: Mouse brain tissue extract. ICC/IF: SK-N-SH cells.
General notes	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

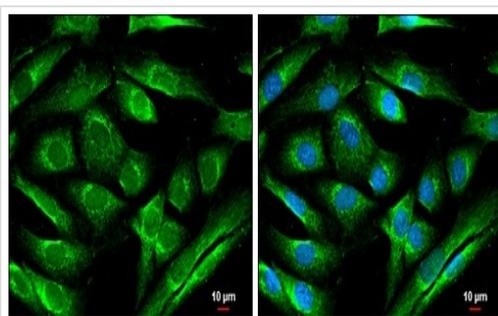
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab229582 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 64 kDa.
ICC/IF		1/100 - 1/1000.

Target

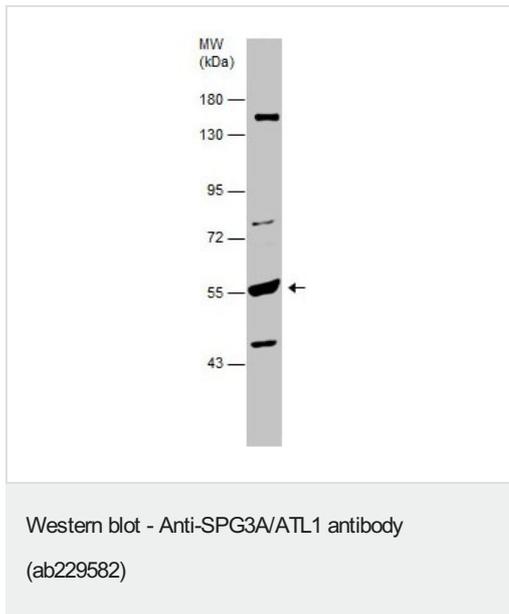
Function	GTPase tethering membranes through formation of trans-homooligomer and mediating homotypic fusion of endoplasmic reticulum membranes. Functions in endoplasmic reticulum tubular network biogenesis. May also regulate Golgi biogenesis. May regulate axonal development.
Tissue specificity	Expressed 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).
Involvement in disease	Defects in ATL1 are the cause of spastic paraplegia autosomal dominant type 3 (SPG3) [MIM:182600]; also known as Strumpell-Lorain syndrome. Spastic paraplegia is a degenerative spinal cord disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs.
Sequence similarities	Belongs to the GBP family. Atlastin subfamily.
Cellular localization	Endoplasmic reticulum membrane. Golgi apparatus membrane. Cell projection > axon.

Images



Immunocytochemistry/ Immunofluorescence - Anti-SPG3A/ATL1 antibody (ab229582)

SK-N-SH (Human neuroblastoma cell line) cells stained for SPG3A/ATL1 (green) using ab229582 (1/500 dilution) in ICC/IF. Cells were fixed in 4% paraformaldehyde at RT for 15 minutes. Counterstain: Hoechst 33342 (blue).



Anti-SPG3A/ATL1 antibody (ab229582) at 1/1000 dilution + Mouse brain tissue extract at 50 µg

Predicted band size: 64 kDa

7.5% SDS-PAGE gel.

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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