

Product datasheet

Anti-SPG3A/ATL1 antibody ab196573

1 Image

Overview

<b>Product name</b>	Anti-SPG3A/ATL1 antibody
<b>Description</b>	Rabbit polyclonal to SPG3A/ATL1
<b>Host species</b>	Rabbit
<b>Specificity</b>	ab196573 detects endogenous level of total SPG3A/ATL1 protein.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat 
<b>Immunogen</b>	Recombinant fragment corresponding to Human SPG3A/ATL1 (N terminal). Database link: <a href="#">Q8WXF7</a>
<b>Positive control</b>	WB: SH-SY5Y, LOVO, H460, 293T, U87 and U251 cell lysates and mouse brain tissues lysate. ICC/IF: A549 cells.
<b>General notes</b>	This product was previously labelled as SPG3A

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.4 Preservative: 0.02% Sodium azide Constituents: 49% PBS, 50% Glycerol, 0.87% Sodium chloride  PBS is without Mg <sup>2+</sup> and Ca <sup>2+</sup> .
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab196573** in the following tested applications.

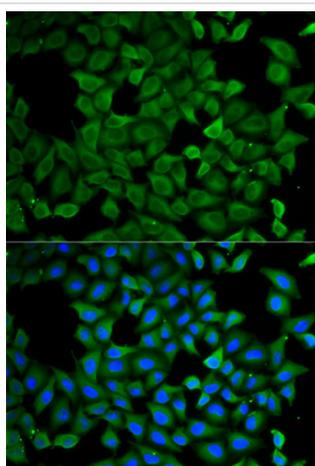
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/50 - 1/200.
WB		1/500 - 1/2000. Predicted molecular weight: 64 kDa.
ICC/IF		1/50 - 1/200.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	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).
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the GBP family. Atlastin subfamily.
<b>Cellular localization</b>	Endoplasmic reticulum membrane. Golgi apparatus membrane. Cell projection > axon.

## Images



Immunocytochemistry/Immunofluorescence analysis of A549 cells labelling SPG3A/ATL1 with ab196573. DAPI (blue) was used as for nuclear staining.

Immunocytochemistry/ Immunofluorescence - Anti-SPG3A/ATL1 antibody (ab196573)

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

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