



[Go to Product page](#)

Datasheet for ABIN5010919

anti-ATL1 antibody (AA 201-300) (Alexa Fluor 680)

Overview

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| Quantity: | 100 µL |
| Target: | ATL1 |
| Binding Specificity: | AA 201-300 |
| Reactivity: | Mouse, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This ATL1 antibody is conjugated to Alexa Fluor 680 |
| Application: | Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)) |

Product Details

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| Immunogen: | KLH conjugated synthetic peptide derived from human SPG3A/Atlastin |
| Isotype: | IgG |
| Cross-Reactivity: | Mouse, Rat |
| Predicted Reactivity: | Human,Rabbit |
| Purification: | Purified by Protein A. |

Target Details

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| Target: | ATL1 |
| Alternative Name: | SPG3A/Atlastin (ATL1 Products) |

Target Details

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| Background: | <p>Synonyms: AD FSP, at11, ATLA1_HUMAN, Atlastin GTPase 1, Atlastin-1, Atlastin1, Brain specific GTP binding protein, Brain-specific GTP-binding protein, FSP1, GBP-3, GBP3, GTP-binding protein 3, Guanine nucleotide-binding protein 3, Guanylate binding protein 3, hGBP3, HSN1D, Spastic paraplegia 3 protein A, SPG 3A, SPG3, SPG3A.</p> <p>Background: Atlastins are Golgi-localized, integral membrane proteins that function as GTPases. The Atlastin proteins, also designated SPG3A and guanylate-binding protein 3, comprise a Dynamin superfamily that plays a role in axonal maintenance. Hereditary spastic paraplegia (HSP) is an inherited neurodegenerative disorder that is characterized by retrograde axonal degeneration. HSP primarily affects long corticospinal neurons and causes spastic lower extremity weakness. Spastin, a microtubule (MT)-severing AAA ATPase, is a binding partner of Atlastin that is involved in membrane dynamics. This Spastin/Atlastin binding may be involved in the biochemical pathway that leads to HSP development. Mutations in the Atlastin gene (SPG3A) account for approximately 10 % of all autosomal dominant HSPs, while mutations in the Spastin gene (SPG4) account for almost 40 %.</p> |
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Application Details

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| Application Notes: | IF(IHC-P) 1:50-200 IF(IHC-F) 1:50-200 IF(ICC) 1:50-200 |
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| Restrictions: | For Research Use only |
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Handling

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| Format: | Liquid |
| Concentration: | 1 µg/µL |
| Buffer: | Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol. |
| Preservative: | ProClin |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Storage: | -20 °C |
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
| Expiry Date: | 12 months |