

Anti-GGA1 antibody ab10551

[2 References](#) [1 Image](#)

Overview

Product name	Anti-GGA1 antibody
Description	Rabbit polyclonal to GGA1
Host species	Rabbit
Specificity	The immunizing sequence is present only in isoform 1 of this protein, therefore cross-reactivity with splice variants is not expected.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide: AMPTRPGEQASPEQPSA , corresponding to amino acids 336-352 of Human GGA1.

 [Run BLAST with](#)

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General notes

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.

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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.01% Sodium azide Constituents: 0.42% Potassium phosphate, 0.88% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab10551 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: 70 kDa.

Target

Function

Plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes. Mediates the ARF-dependent recruitment of clathrin to the TGN and binds ubiquitinated proteins and membrane cargo molecules with a cytosolic acidic cluster-dileucine (AC-LL) motif.

Tissue specificity

Ubiquitously expressed.

Sequence similarities

Belongs to the GGA protein family.
Contains 1 GAE domain.
Contains 1 GAT domain.
Contains 1 VHS domain.

Domain

The VHS domain functions as a recognition module for sorting signals composed of an acidic cluster followed by two leucines (AC-LL motif).
The GAT domain is responsible for interaction with ARF-GTP, UBC and RABEP1. Required for recruitment to the TGN it prevents ARF-GTP hydrolysis.
The unstructured hinge region contains clathrin-binding but no autoinhibitory (AC-LL) motifs.
The GAE domain binds accessory proteins regulating GGAs function.

Post-translational modifications

Phosphorylated by CK2 and dephosphorylated by PP2A. Phosphorylation of GGA1 allows the internal AC-LL motif to bind the VHS domain and to inhibit the recognition of cargo signals.
Phosphorylated upon DNA damage, probably by ATM or ATR.
Ubiquitinated.

Cellular localization

Golgi apparatus > trans-Golgi network membrane. Endosome membrane.

Images



Anti-GGA1 antibody (ab10551) at 1/1350 dilution + Lysate of HEK293 cells overexpressing YFP-GGA1 fusion protein at 35 µg/ml

Secondary

Goat-anti Rabbit IgG

Performed under reducing conditions.

Predicted band size: 70 kDa

Observed band size: 100 kDa

The lysate prepared from HEK293 cells overexpressing YFP-GGA1 fusion protein. This accounts for the observed band of 100 kDa.

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