

Anti-GGA-1 Antibody

Catalog Number: A02501

About GGA1

GGA1 (also known as ADP-ribosylation factor binding protein, Golgi-localized, gamma ear-containing, ARF-binding protein 1, Gamma-adaptin related protein 1) plays a role in protein sorting and trafficking between the trans-Golgi network (TGN) and endosomes. This protein 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. GGA1 is a monomeric protein that interacts with NECAP1, GGA2 and GGA3 as well as RABEP1, RABGEF1 and type-I membrane proteins SORT1, SORL1, LRP3, M6PR/CD-MPR, IGF2R/CI-MPR and BACE1. GGA1 is a ubiquitously membrane-associated protein that is localized to TGN and endosomes. Multiple alternatively spliced transcript variants encoding different isoforms have been found for this gene.

Overview

Product Name	Anti-GGA-1 Antibody
Reactive Species	Human
Description	Boster Bio Anti-GGA-1 Antibody (Catalog # A02501). Tested in ELISA, WB applications. This antibody reacts with Human.
Application	ELISA, IP, WB
Clonality	Polyclonal
Formulation	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2, 0.01% (w/v) Sodium Azide
Storage Instructions	Store vial at -20°C prior to opening. Aliquot contents and freeze at -20°C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4°C as an undiluted liquid. Dilute only prior to immediate use. Expiration date is one (1) year from date of opening. (Ship on dry ice.)
Host	Rabbit
Uniprot ID	Q9UJY5

Technical Details

Immunogen	This affinity-purified antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an internal region near amino acids 330-360 of Human GGA-1.
Predicted Reactive Species	Bovine, Pufferfish, Zebrafish
Isotype	IgG
Form	Liquid (sterile filtered)

Concentration	1.35 mg/mL by UV absorbance at 280 nm
Purification	This affinity purified antibody is directed against human GGA1 protein. The product was affinity purified from monospecific antiserum by immunoaffinity purification. A BLAST analysis was used to suggest reactivity with this protein from human based on 100% homology for the immunogen sequence. Cross-reactivity may occur with GGA1 from bovine (87% homology), mouse (82% homology) and rat (76% homology) sources. The immunizing sequence is present only in isoform 1 of this protein, therefore cross-reactivity with splice variants is not expected. Cross-reactivity with GGA1 homologues from other sources has not been determined.
Suggested Dilutions	ELISA: 1:10,000 - 1:50,000 IP: 1:100 WB: 1:500 - 1:3,000 This affinity purified antibody has been tested for use in ELISA and western blot. Specific conditions for reactivity should be optimized by the end user. Expect bands at 70 kDa in size corresponding to GGA1 by western blotting in the appropriate cell lysate or extract.

Anti-GGA-1 Antibody (A02501) Images



Western blot using Boster's Affinity Purified anti-GGA1 antibody shows detection of bands at ~100 kDa corresponding to YFP-GGA1 fusion present in a lysate of HEK293 cells over-expressing the recombinant protein (arrowhead). Approximately 35 μ g of lysate was separated on a 4-20% gel by SDS-PAGE and transferred onto nitrocellulose. After blocking the membrane was probed with the primary antibody diluted to 1:1,350. Reaction occurred overnight at 4° followed by washes and reaction with a 1:10,000 dilution of IRDye™ 800 conjugated Gt anti-Rb for 45 min at room temperature. IRDye™ 800 fluorescence image was captured using the Odyssey® Infrared Imaging System developed by LI-COR. IRDye is a trademark of LI-COR, Inc. Other detection systems will yield similar results.

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Anti-GGA-1 Antibody

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