


Product datasheet

Anti-GGA1 antibody ab153799

2 Images

Overview

<b>Product name</b>	Anti-GGA1 antibody
<b>Description</b>	Rabbit polyclonal to GGA1
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat, Cow 
<b>Immunogen</b>	Recombinant fragment, corresponding to a region within amino acids 46-307 of Human GGA1.
<b>Positive control</b>	NT2D1, PC-3, U87-MG and SK-N-SH whole cell lysates; Human gastric carcinoma tissue.

Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 78% PBS, 20% Glycerol, 1% BSA
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab153799** in the following tested applications.

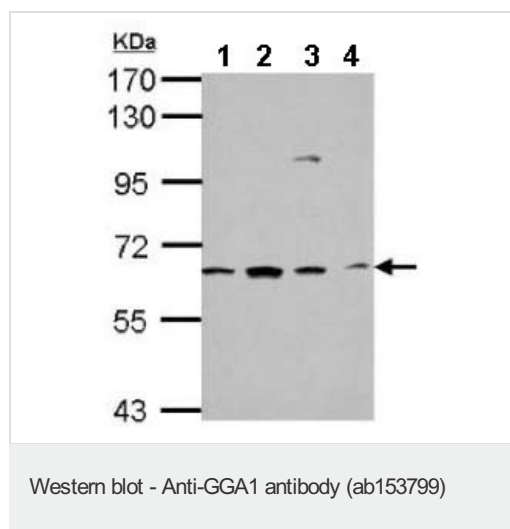
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 70 kDa.
IHC-P		1/100 - 1/1000.

## Target

<b>Function</b>	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.
<b>Tissue specificity</b>	Ubiquitously expressed.
<b>Sequence similarities</b>	Belongs to the GGA protein family. Contains 1 GAE domain. Contains 1 GAT domain. Contains 1 VHS domain.
<b>Domain</b>	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.
<b>Post-translational modifications</b>	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.
<b>Cellular localization</b>	Golgi apparatus > trans-Golgi network membrane. Endosome membrane.

## Images



**All lanes :** Anti-GGA1 antibody (ab153799) at 1/1000 dilution

**Lane 1 :** NT2D1 whole cell lysate

**Lane 2 :** PC-3 whole cell lysate

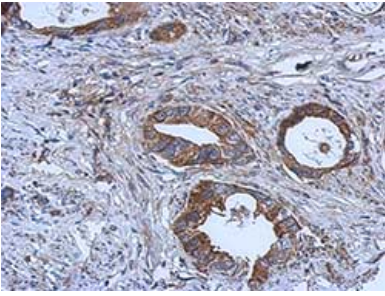
**Lane 3 :** U87-MG whole cell lysate

**Lane 4 :** SK-N-SH whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 70 kDa

7.5% SDS PAGE



Immunohistochemical analysis of paraffin-embedded Human gastric carcinoma tissue labeling GGA1 with ab153799 at 1/500 dilution.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GGA1 antibody (ab153799)

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

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