


## Product datasheet

# Anti-GGA3 antibody [EPR14340] - BSA and Azide free ab250282

Recombinant RabMAb

4 Images

### Overview

Product name	Anti-GGA3 antibody [EPR14340] - BSA and Azide free
Description	Rabbit monoclonal [EPR14340] to GGA3 - BSA and Azide free
Host species	Rabbit
Tested applications	<b>Suitable for:</b> IHC-P, Flow Cyt (Intra), WB
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
General notes	<p>ab250282 is the carrier-free version of <a href="#">ab180951</a>.</p> <p>Our <b>carrier-free</b> antibodies are typically supplied in a PBS-only formulation, purified and free of BSA, sodium azide and glycerol. The carrier-free buffer and high concentration allow for increased conjugation efficiency.</p> <p>This conjugation-ready format is designed for use with fluorochromes, metal isotopes, oligonucleotides, and enzymes, which makes them ideal for antibody labelling, functional and cell-based assays, flow-based assays (e.g. mass cytometry) and Multiplex Imaging applications.</p> <p>Use our <b>conjugation kits</b> for antibody conjugates that are ready-to-use in as little as 20 minutes with &lt;1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold.</p> <p>This product is compatible with the Maxpar<sup>®</sup> Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar<sup>®</sup> is a trademark of Fluidigm Canada Inc.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

## Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Purity	Affinity purified
Clonality	Monoclonal
Clone number	EPR14340
Isotype	IgG

## Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab250282 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		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
Flow Cyt (Intra)		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Predicted molecular weight: 78 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 and an autoinhibitory (AC-LL) motifs. The GAE domain binds accessory proteins regulating GGAs function.
Post-translational	Phosphorylated by CK2 and dephosphorylated by PP2A (By similarity). Phosphorylation of GGA3

## modifications

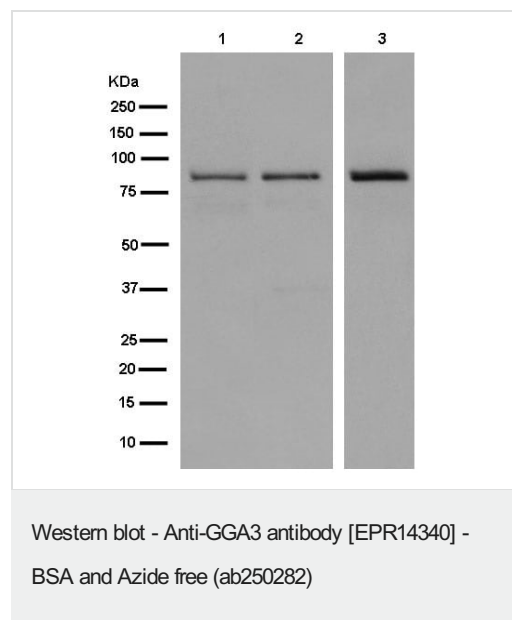
allows the internal AC-LL motif to bind the VHS domain and to inhibit the recognition of cargo signals.

Ubiquitinated.

## Cellular localization

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

## Images



**All lanes :** Anti-GGA3 antibody [EPR14340] ([ab180951](#)) at 1/5000 dilution

**Lane 1 :** SH-SY5Y cell lysate

**Lane 2 :** 293 cell lysate

**Lane 3 :** A431 cell lysate

Lysates/proteins at 20 µg per lane.

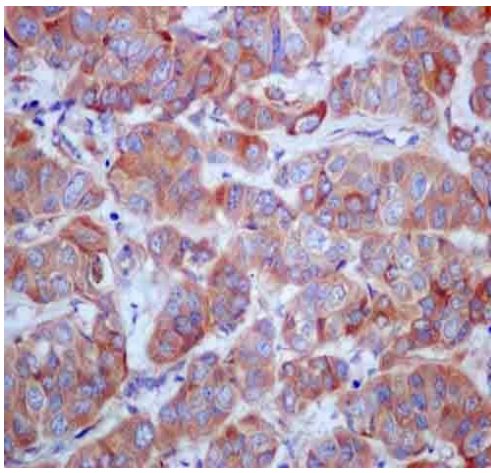
### Secondary

**All lanes :** Peroxidase conjugated goat anti-rabbit IgG, (H+L) at 1/1000 dilution

**Predicted band size:** 78 kDa

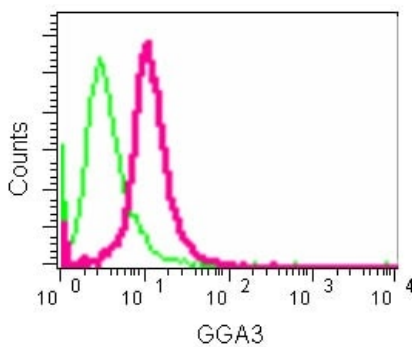
This data was developed using [ab180951](#), the same antibody clone in a different buffer formulation.

**Blocking and dilution buffer:** 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-GGA3 antibody  
[EPR14340] - BSA and Azide free (ab250282)

This data was developed using **ab180951**, the same antibody clone in a different buffer formulation. Immunohistochemical analysis of paraffin-embedded Human infiltrating duct carcinoma of breast tissue labeling GGA3 using **ab180951** at a 1/50 dilution, and counterstained with Hematoxylin. Prediluted (ready to use) HRP Polymer for Rabbit IgG was used as a secondary antibody. Perform heat mediated antigen retrieval with EDTA buffer pH 9 before commencing with IHC staining protocol.

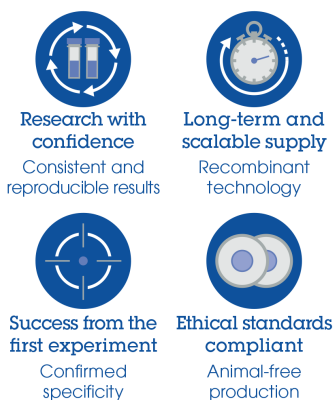


Flow Cytometry (Intracellular) - Anti-GGA3 antibody  
[EPR14340] - BSA and Azide free (ab250282)

This data was developed using **ab180951**, the same antibody clone in a different buffer formulation.

Intracellular flow cytometric analysis of 2% paraformaldehyde fixed SH-SY5Y cells labeling GGA3 using **ab180951** at a 1/20 dilution, or Rabbit monoclonal IgG (isotype control). Goat anti rabbit IgG (FITC) at a 1/50 dilution was used as a secondary antibody.

### Why choose a recombinant antibody?



Anti-GGA3 antibody [EPR14340] - BSA and Azide free (ab250282)

### **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

### **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors