


Product datasheet

Anti-GAPex 5 antibody ab86033

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

Overview

Product name	Anti-GAPex 5 antibody
Description	Rabbit polyclonal to GAPex 5
Host species	Rabbit
Tested applications	Suitable for: WB, IP
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Rabbit, Horse, Dog, Turkey, Pig, Xenopus laevis, Zebrafish, Rhesus monkey, Gorilla, Tilapia, Orangutan, Xenopus tropicalis, Platypus 
Immunogen	Synthetic peptide corresponding to Human GAPex 5. Database link: Q14C86
Positive control	HeLa whole cell lysate (ab150035)
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 6.8 Preservative: 0.09% Sodium azide Constituents: Tris buffered saline, 0.1% BSA
Purity	Immunogen affinity purified
Purification notes	ab86033 was affinity purified using an epitope specific to GAPex 5 immobilized on solid support
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab86033 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		1/2000 - 1/10000. Predicted molecular weight: 165 kDa.
IP		Use at 2-5 µg/mg of lysate.

Target

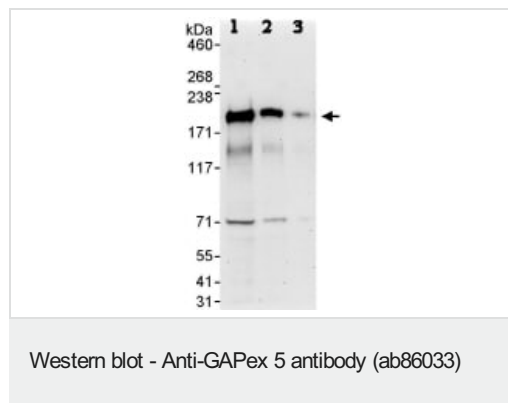
Relevance

GAPex 5 plays a role in several processes such as endocytosis, insulin receptor internalisation and LC2A4/GLUT4 trafficking. It acts as both a GTPase-activating protein (GAP) and a guanine nucleotide exchange factor (GEF). GAPex 5 is a GEF for the small G protein Rab31, promoting the exchange of GDP bound to Rab31 for GTP and thus regulating LC2A4/GLUT4 trafficking. In the absence of insulin, GAPex 5 maintains Rab31 in an active (GTP-bound) state, thereby promoting a futile cycle between LC2A4/GLUT4 storage vesicles and early endosomes, keeping LC2A4/GLUT4 inside the cells. Following insulin stimulation, GAPex 5 is translocated to the plasma membrane, enabling the release of LC2A4/GLUT4 from the intracellular storage vesicles. GAPex 5 is also involved in EGFR trafficking and degradation, and also has GEF activity for Rab5 and GAP activity for Ras.

Cellular localization

Cell Membrane (peripheral membrane protein) and Cytoplasmic

Images



All lanes : Anti-GAPex 5 antibody (ab86033) at 0.04 µg/ml

Lane 1 : HeLa whole cell lysate at 50 µg

Lane 2 : HeLa whole cell lysate at 15 µg

Lane 3 : HeLa whole cell lysate at 5 µg

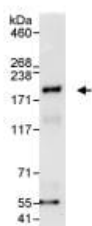
Developed using the ECL technique.

Predicted band size: 165 kDa

Observed band size: 180 kDa

Additional bands at: 71 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds



Immunoprecipitation - Anti-GAPex 5 antibody
(ab86033)

ab86033, at 0.1 $\mu\text{g/ml}$, staining GAPex 5 in HeLa whole cell lysate immunoprecipitated using ab86033 at 3 $\mu\text{g/mg}$ lysate (1 mg/IP; 20% of IP loaded/lane).

Detection: by chemiluminescence with an exposure time of 30 seconds.

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

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