abcam

Product datasheet

Anti-GANAB antibody [EPR12377(B)] ab179805

KO VALIDATED Recombinant RabMAb

3 References 5 Images

Overview

Product name	Anti-GANAB antibody [EPR12377(B)]
Description	Rabbit monoclonal [EPR12377(B)] to GANAB
Host species	Rabbit
Tested applications	**Suitable for:** Flow Cyt (Intra), IP, WB **Unsuitable for:** ICC/IF or IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human GANAB aa 650-750 (Cysteine residue). The exact sequence is proprietary. Database link: **Q14697**
Positive control	Human placenta, A431, HepG2, HeLa, PC-12 and NIH3T3 lysates; HeLa cells.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant
Purity	Tissue culture supernatant
Clonality	Monoclonal

Clone number	EPR12377(B)
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab179805 in the following tested applications.

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

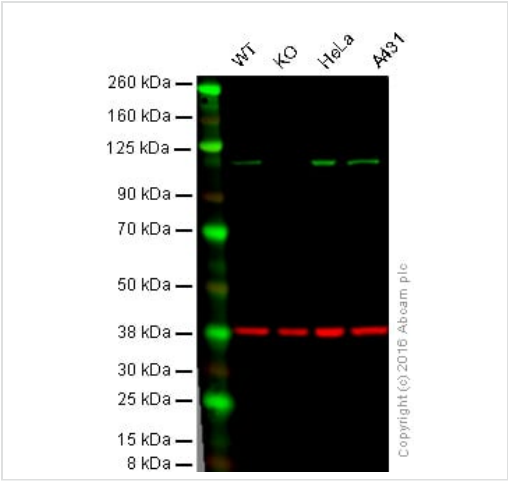
Application	Abreviews	Notes
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
IP		1/10 - 1/100.
WB		1/1000 - 1/5000. Predicted molecular weight: 107 kDa.

Application notes Is unsuitable for ICC/IF or IHC-P.

Target

Function	Cleaves sequentially the 2 innermost alpha-1,3-linked glucose residues from the Glc(2)Man(9)GlcNAc(2) oligosaccharide precursor of immature glycoproteins.
Tissue specificity	Detected in placenta.
Pathway	Glycan metabolism; N-glycan metabolism.
Sequence similarities	Belongs to the glycosyl hydrolase 31 family.
Cellular localization	Endoplasmic reticulum. Golgi apparatus. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

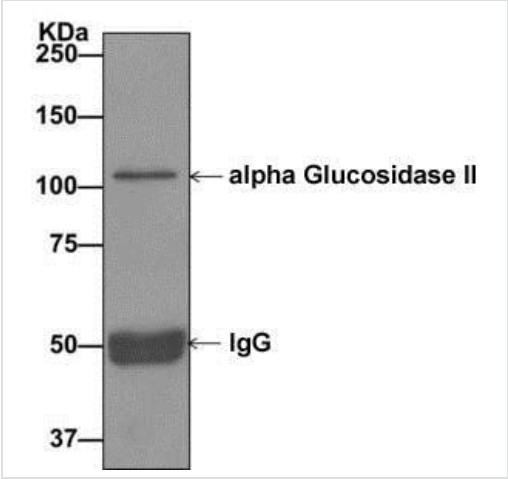
Images



Western blot - Anti-GANAB antibody [EPR12377(B)] (ab179805)

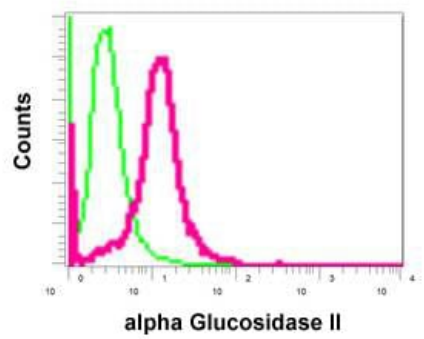
Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: GANAB knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: 1 cell lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab179805 observed at 105 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab179805 was shown to specifically react with GANAB when GANAB knockout samples were used. Wild-type and GANAB knockout samples were subjected to SDS-PAGE. ab179805 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/10000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



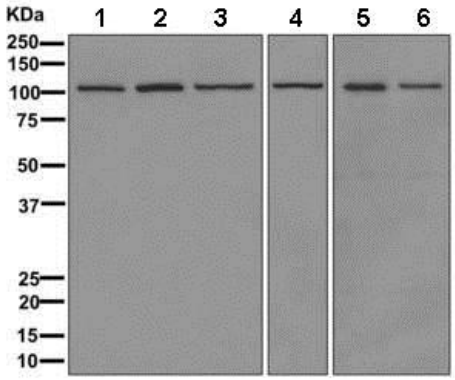
Immunoprecipitation - Anti-GANAB antibody [EPR12377(B)] (ab179805)

Western blot analysis on immunoprecipitation pellet from A431 cell lysate using ab179805.



Flow Cytometry (Intracellular) - Anti-GANAB antibody [EPR12377(B)] (ab179805)

Intracellular flow cytometric analysis of permeabilized HeLa cells labeling GANAB with ab179805 at 1/10 dilution (red), compared toa rabbit IgG negative control (green).



Western blot - Anti-GANAB antibody [EPR12377(B)] (ab179805)

All lanes : Anti-GANAB antibody [EPR12377(B)] (ab179805) at 1/1000 dilution

Lane 1 : Human placenta lysate
Lane 2 : A431 lysate
Lane 3 : HepG2 lysate
Lane 4 : HeLa lysate
Lane 5 : PC-12 lysate
Lane 6 : NIH3T3 lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 107 kDa

Anti-GANAB antibody [EPR12377(B)] (ab179805)

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