abcam

Product datasheet

Anti-GABARAPL2/GATE-16 antibody [EP4808] ab126607

KO VALIDATED Recombinant RabMAb

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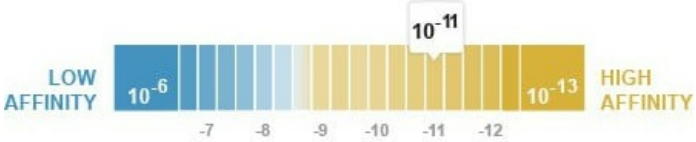
Overview

Product name	Anti-GABARAPL2/GATE-16 antibody [EP4808]
Description	Rabbit monoclonal [EP4808] to GABARAPL2/GATE-16
Host species	Rabbit
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt,ICC/IF,IHC-P or IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat
Immunogen	Synthetic peptide within Human GABARAPL2/GATE-16 aa 50-150. The exact sequence is proprietary.
Positive control	HeLa, Human fetal brain, Human heart and Human spleen lysates.
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. Stable for 12 months at -20°C.
Dissociation constant (K_D)	K_D = 6.50 x 10^{-11} M



Learn more about K_D

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP4808
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab126607 in the following tested applications.

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

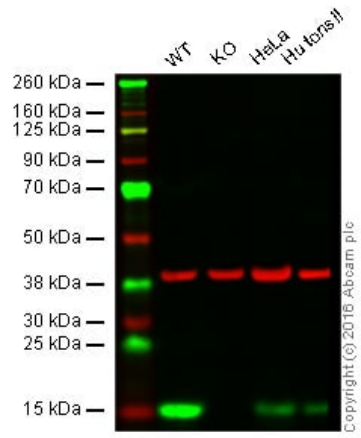
Application	Abreviews	Notes
WB	★★★★★ (4)	1/1000 - 1/10000. Detects a band of approximately 14 kDa (predicted molecular weight: 14 kDa).

Application notes Is unsuitable for Flow Cyt,ICC/IF,IHC-P or IP.

Target

Function	Involved in intra-Golgi traffic. Modulates intra-Golgi transport through coupling between NSF activity and SNAREs activation. It first stimulates the ATPase activity of NSF which in turn stimulates the association with GOSR1.
Tissue specificity	Ubiquitous. Expressed at high levels in the brain, heart, prostate, ovary, spleen and skeletal muscle. Expressed at very low levels in lung, thymus and small intestine.
Sequence similarities	Belongs to the MAP1 LC3 family.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Golgi apparatus.

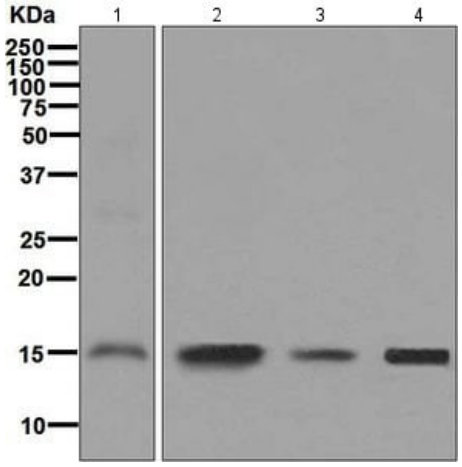
Images



Western blot - Anti-GABARAPL2/GATE-16 antibody [EP4808] (ab126607)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: GABARAPL2 / GATE-16 knockout HAP1 cell lysate (20 µg)
Lane 3: HeLa cell lysate (20 µg)
Lane 4: Human tonsil lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab126607 observed at 15 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab126607 was shown to specifically react with GABARAPL2 / GATE-16 when GABARAPL2 / GATE-16 knockout samples were used. Wild-type and GABARAPL2 / GATE-16 knockout samples were subjected to SDS-PAGE. ab126607 and **ab8245** (loading control to GAPDH) were diluted 1/1000 and 1/10 000 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 1/10 000 dilution for 1 h at room temperature before imaging.



Western blot - Anti-GABARAPL2/GATE-16 antibody [EP4808] (ab126607)

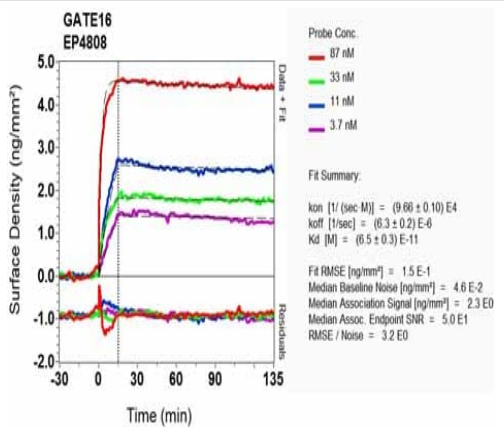
All lanes : Anti-GABARAPL2/GATE-16 antibody [EP4808] (ab126607) at 1/1000 dilution

Lane 1 : Human fetal brain tissue lysate
Lane 2 : Human heart tissue lysate
Lane 3 : HeLa cell lysate
Lane 4 : Human spleen tissue lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 14 kDa
Observed band size: 14 kDa

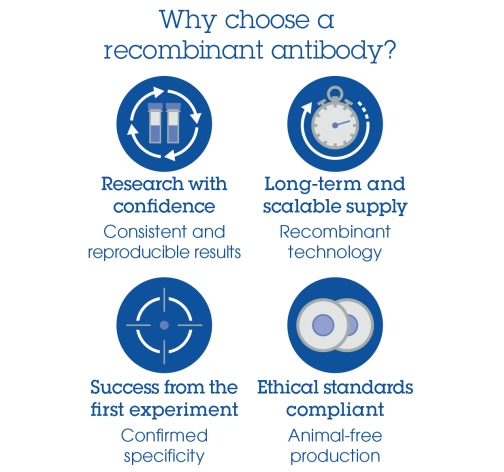


OI-RD Scanning - Anti-GABARAPL2/GATE-16 antibody [EP4808] (ab126607)

Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-GABARAPL2/GATE-16 antibody [EP4808] (ab126607)

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