abcam

Product datasheet

Anti-Glycerol kinase antibody [EPR6567] - BSA and Azide free ab248122

KO 評価済 リコンビナント RabMAb

画像数 5

製品の概要

製品名	Anti-Glycerol kinase antibody [EPR6567] - BSA and Azide free
製品の詳細	Rabbit monoclonal [EPR6567] to Glycerol kinase - BSA and Azide free
由来種	Rabbit
アプリケーション	**適用あり:** WB, Flow Cyt (Intra) **適用なし:** ICC/IF or IHC-P
種交差性	**交差種:** Human **交差が予測される動物種:** Mouse, Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: Mouse adipose tissue lysate. Fetal liver, HEK-293T, Jurkat and HepG2 whole cell lysate (**ab7900**). Flow Cyt (intra): Permeabilized HepG2 cells.
特記事項	ab248122 is the carrier-free version of **ab126599**. Our **carrier-free** 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. 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. Use our **conjugation kits** for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. This product is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm, without the need for antibody preparation. Maxpar® is a trademark of Fluidigm Canada Inc. 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**.

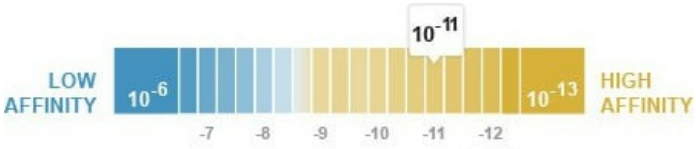
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態 Liquid

保存方法 Shipped at 4°C. Store at +4°C. Do Not Freeze.

解離定数（K_D 値） $K_D = 4.80 \times 10^{-11}$ M



Learn more about K_D

バッファー pH: 7.2
Constituent: PBS

キャリア・フリー はい

精製度 Protein A purified

ポリ/モノ モノクローナル

クローン名 EPR6567

アイソタイプ IgG

アプリケーション

The Abpromise guarantee Abpromise保証は、次のテスト済みアプリケーションにおけるab248122の使用に適用されます

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		Use at an assay dependent concentration. Detects a band of approximately 55 kDa (predicted molecular weight: 61 kDa).
Flow Cyt (Intra)		Use at an assay dependent concentration.

追加情報 Is unsuitable for ICC/IF or IHC-P.

ターゲット情報

機能 Key enzyme in the regulation of glycerol uptake and metabolism.

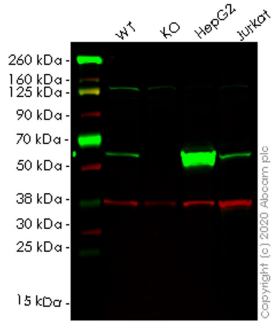
組織特異性 Highly expressed in the liver, kidney and testis. Isoform 2 and isoform 3 are expressed specifically in testis and fetal liver, but not in the adult liver.

パスウェイ Polyol metabolism; glycerol degradation via glycerol kinase pathway; sn-glycerol 3-phosphate from glycerol: step 1/1.

関連疾患 Defects in GK are the cause of GK deficiency (GKD) [MIM:307030]. This disease can be either symptomatic with episodic metabolic and CNS decompensation or asymptomatic with

	hyperglycerolemia and hyperglyceroluria only.
配列類似性	Belongs to the FGGY kinase family.
細胞内局在	Mitochondrion outer membrane. Cytoplasm. In sperm and fetal tissues, the majority of the enzyme is bound to mitochondria, but in adult tissues, such as liver found in the cytoplasm.

画像



Western blot - Anti-Glycerol kinase antibody [EPR6567] - BSA and Azide free (ab248122)

All lanes : Anti-Glycerol kinase antibody [EPR6567] (**ab126599**) at 1/500 dilution

Lane 1 : Wild-type HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 2 : GK knockout HEK-293T (Human epithelial cell line from embryonic kidney transformed with large T antigen) whole cell lysate
Lane 3 : HepG2 (Human liver hepatocellular carcinoma cell line) whole cell lysate
Lane 4 : Jurkat (Human T cell leukemia cell line from peripheral blood) whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

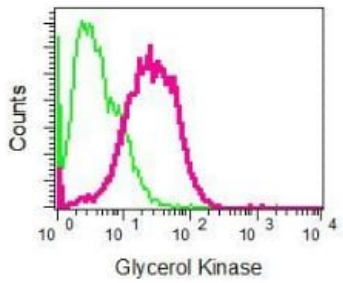
Predicted band size: 61 kDa
Observed band size: 61 kDa

This data was developed using **ab126599**, the same antibody clone in a different buffer formulation.

Lanes 1-4: Merged signal (red and green). Green - **ab126599** observed at 61 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab126599 Anti-Glycerol kinase antibody [EPR6567] was shown to specifically react with Glycerol kinase in wild-type HEK-293T cells. Loss of signal was observed when knockout cell line **ab267328** (knockout cell lysate **ab257966**) was used. Wild-type and Glycerol kinase knockout samples were subjected to SDS-PAGE. **ab126599** and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-

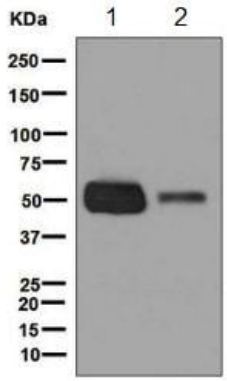
Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry (Intracellular) - Anti-Glycerol kinase antibody [EPR6567] - BSA and Azide free (ab248122)

This data was developed using **ab126599**, the same antibody clone in a different buffer formulation.

ab126599, at 1/100 dilution, staining Glycerol kinase in permeabilized HepG2 cells by ImmunoFluorescence (red). A rabbit IgG is used as a negative control (green).



Western blot - Anti-Glycerol kinase antibody [EPR6567] - BSA and Azide free (ab248122)

All lanes : Anti-Glycerol kinase antibody [EPR6567] (**ab126599**) at 1/1000 dilution

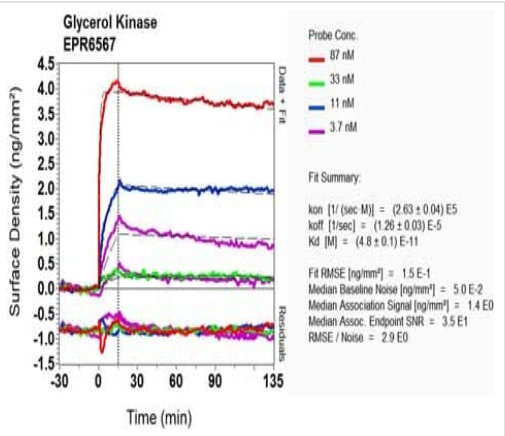
Lane 1 : Fetal liver tissue lysate
Lane 2 : HepG2 cell lysate

Lysates/proteins at 10 µg per lane.

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

Predicted band size: 61 kDa
Observed band size: 55 kDa

This data was developed using **ab126599**, the same antibody clone in a different buffer formulation.

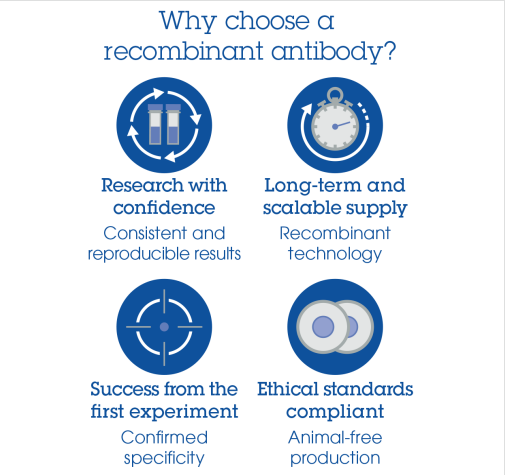


OI-RD Scanning - Anti-Glycerol kinase antibody [EPR6567] - BSA and Azide free (ab248122)

This data was developed using **ab126599**, the same antibody clone in a different buffer formulation.Equilibrium disassociation constant (K_D)

Learn more about K_D

Click here to learn more about K_D



Anti-Glycerol kinase antibody [EPR6567] - BSA and Azide free (ab248122)

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.co.jp/abpromise** or contact our technical team.

Terms and conditions

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