

Product datasheet

Anti-Glycerol kinase antibody ab228615

2 Images

Overview

Product name	Anti-Glycerol kinase antibody
Description	Rabbit polyclonal to Glycerol kinase
Host species	Rabbit
Tested applications	Suitable for: WB, ICC/IF
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat, Cow, Pig, Chimpanzee 
Immunogen	Recombinant fragment within Human Glycerol kinase (internal sequence). The exact sequence is proprietary. Database link: P32189
Positive control	WB: HepG2 whole cell lysate. ICC/IF: HepG2 cells.

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: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 20% Glycerol
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab228615** in the following tested applications.

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

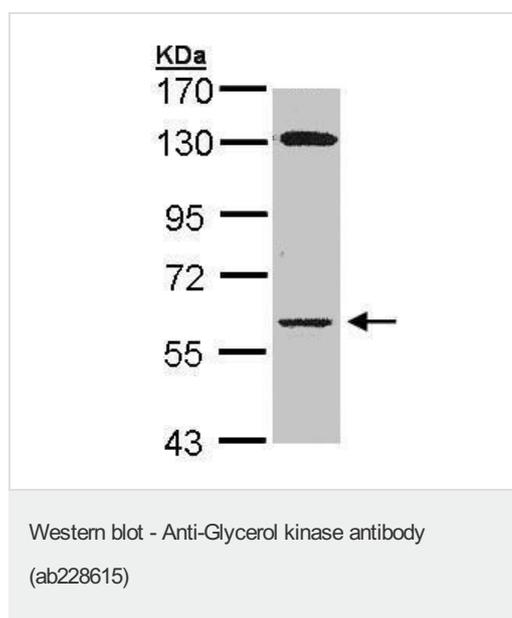
Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 61 kDa.

Application	Abreviews	Notes
ICC/IF		1/100 - 1/1000.

Target

Function	Key enzyme in the regulation of glycerol uptake and metabolism.
Tissue specificity	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.
Pathway	Polyol metabolism; glycerol degradation via glycerol kinase pathway; sn-glycerol 3-phosphate from glycerol: step 1/1.
Involvement in disease	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.
Sequence similarities	Belongs to the FGGY kinase family.
Cellular localization	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.

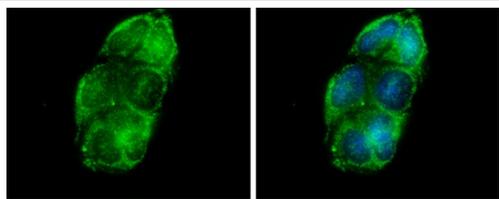
Images



Anti-Glycerol kinase antibody (ab228615) at 1/1000 dilution + HepG2 (human liver hepatocellular carcinoma cell line) whole cell lysate at 30 µg

Predicted band size: 61 kDa

7.5% SDS-PAGE gel.



Immunocytochemistry/ Immunofluorescence - Anti-Glycerol kinase antibody (ab228615)

Ice-cold methanol-fixed HepG2 (human liver hepatocellular carcinoma cell line) cells stained for Glycerol kinase (green) using ab228615 at 1/500 dilution in ICC/IF.

Nuclear counter stain: Hoechst 33342 (blue).

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