

## Product datasheet

# Anti-Glycerol kinase antibody ab70029

★★★★☆ 1 Abreviews 2 Images

### Overview

<b>Product name</b>	Anti-Glycerol kinase antibody
<b>Description</b>	Rabbit polyclonal to Glycerol kinase
<b>Specificity</b>	ab70029 detects endogenous levels of total GLPK protein.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ELISA, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat
<b>Immunogen</b>	Synthetic peptide derived from C-terminus of human Glycerol kinase.
<b>Positive control</b>	HeLa cells, extracts from 293 and Jurkat cells.

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.02% Sodium Azide Constituents: 50% Glycerol, PBS (without Mg <sup>2+</sup> and Ca <sup>2+</sup> ), 150mM Sodium chloride, pH 7.4
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

Our [Abpromise guarantee](#) covers the use of **ab70029** in the following tested applications.

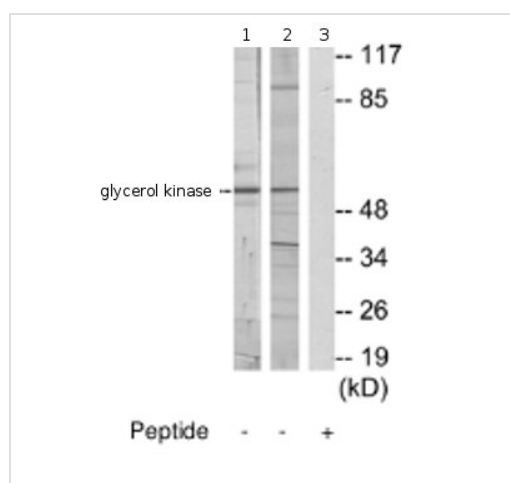
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/1000. Detects a band of approximately 57 kDa (predicted molecular weight: 57 kDa).
ELISA		1/20000.
ICC/IF	★★★★☆	1/500 - 1/1000.

## Target

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



Western blot - Glycerol kinase antibody (ab70029)

**All lanes :** Anti-Glycerol kinase antibody (ab70029) at 1/500 dilution

**Lane 1 :** extracts from 293 cells

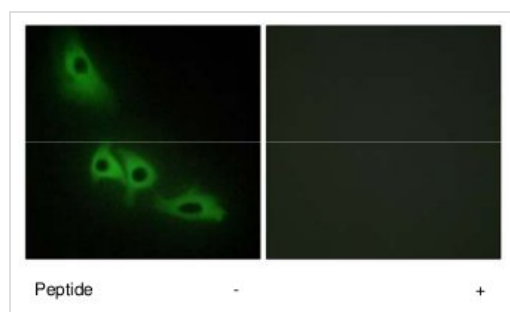
**Lane 2 :** extracts from Jurkat cells

**Lane 3 :** extracts from 293 cells with immunising peptide at 10 µg

Lysates/proteins at 30 µg per lane.

**Predicted band size :** 57 kDa

**Observed band size :** 57 kDa



Immunocytochemistry/ Immunofluorescence - Glycerol kinase antibody (ab70029)

This image shows HeLa cells with ab70029 at 1/500 dilution, with and without the immunising peptide.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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