

Datasheet for 200-103-211-0100**Glycerol Kinase Antibody HRP Conjugated****Overview**

Description:	Anti-Glycerol Kinase (Cellulomonas species) (GOAT) Antibody Peroxidase Conjugated - 200-103-211-0100
Item No.:	200-103-211-0100
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Glycerol Kinase (Cellulomonas)
Host Species:	Goat

Product Details

Background:	Glycerol Kinase is a key enzyme in the regulation of glycerol uptake and metabolism. Glycerol kinase is a phosphotransferase enzyme involved in triglycerides and glycerophospholipids synthesis.
Synonyms:	goat anti-Glycerol Kinase Antibody HRP Conjugation, Peroxidase Conjugated goat anti-Glycerol Kinase Antibody, ATP glycerol 3 phosphotransferase antibody, GK antibody, GK antibody, GK1 antibody, GKD antibody, Glycerokinase antibody, Glycerol kinase antibody, Glycerol kinase deficiency antibody
Host Species:	Goat
Conjugate:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	glpK
Reactivity:	Glycerol Kinase (Cellulomonas)
Immunogen Type:	Native Protein
Immunogen:	Glycerol Kinase [Cellulomonas species]

Purity/Specificity: Glycerol Kinase is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-Peroxidase, anti-Goat Serum as well as purified and partially purified Glycerol Kinase [Cellulomonas species]. Cross reactivity against Glycerol Kinase from other sources is unknown.

Relevant Links:

- [UniProtKB - D0VZG4](#)
- [NCBI - BAI49417.1](#)
- [GeneID - 6960048](#)

Application Details

Tested Applications: ELISA, WB

Application Note: Anti-Glycerol Kinase has been tested by ELISA and western blot. this product is assayed against 1.0 ug of Glycerol Kinase [Cellulomonas species] in a standard capture ELISA using ABTS (2,2'-azino-bis-[3-ethylbenthiazoline-6-sulfonic acid]) code # ABTS-100 as a substrate for 30 minutes at room temperature. A working dilution of 1:500 to 1:2,500 of the reconstitution concentration is suggested for this product.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

ELISA: 1:1,000 - 1:5,000

WB: 1:500 - 1:2,500

Formulation

Physical State: Lyophilized

Concentration: 1.0 mg/mL by UV absorbance at 280 nm

Buffer: 0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative: 0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

Stabilizer: 10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

Reconstitution Volume: 100 µL

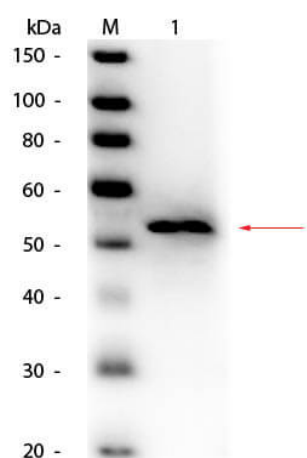
Reconstitution Buffer: Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition: Ambient

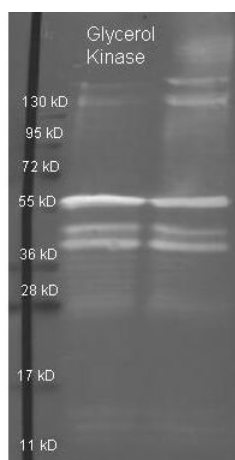
Storage Condition:	Store vial at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Goat anti-Glycerol Kinase (Cellulomonas species) Antibody Peroxidase Conjugated. Lane 1: Glycerol Kinase (Cellulomonas species). Load: 50 ng per lane. Primary antibody: Goat anti-Glycerol Kinase (Cellulomonas species) Antibody Peroxidase Conjugated at 1:1,000 overnight at 4°C. Secondary antibody: n/a. Block: MB-070 for 30 minutes at RT. Predicted/Observed size: 55 kDa, 55 kDa for Glycerol Kinase.



Western Blot

Rockland Goat anti Glycerol Kinase antibody (200-101-211 lot 5912) was used to detect purified Glycerol Kinase under reducing (R) and non-reducing (NR) conditions. Reduced samples of purified protein contained 4% BME and were boiled for 5 minutes. Samples of ~1ug of protein per lane were run by SDS-PAGE. Protein was transferred to nitrocellulose and probed with 1:3000 dilution of primary antibody (ON 4 C in MB-070). Detection shown was using Dylight 488 conjugated Donkey anti goat (605-741-125 lot 21094 1:10K in TBS/MB-070 1 hr RT). Images were collected using the BioRad VersaDoc System.

Disclaimer

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