

Anti-GLYCEROL KINASE (Cellulomonas species) (GOAT) Antibody - 100-101-211

Code: 100-101-211

Size: 2 mL

Product Description: Anti-GLYCEROL KINASE (Cellulomonas species) (GOAT) Antibody - 100-101-211

Concentration: 90 mg/mL by Refractometry

PhysicalState: Lyophilized

Label	Unconjugated
Host	Goat
Gene Name	glpK
Species Reactivity	GLYCEROL KINASE (Cellulomonas species)
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Reconstitution Volume	2.0 mL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	None
Preservative	0.01% (w/v) Sodium Azide
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.
Synonyms	goat anti-Glycerol Kinase Antibody, ATP glycerol 3 phosphotransferase antibody, GK antibody, GK1 antibody, GKD antibody, Glycerokinase antibody, Glycerol kinase antibody, Glycerol kinase deficiency antibody
Application Note	This product has been assayed against 1.0 µg of Glycerol Kinase [Cellulomonas species] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) code #605-4302 and (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 1:1,000 to 1:2,000 of the reconstitution concentration is suggested for this product.
Background	Glycerol Kinase is the key enzyme in the regulation of glycerol uptake and metabolism. It catalyzes the phosphorylation of glycerol to yield sn-glycerol 3-phosphate. It is inhibited by fructose 1,6-bisphosphate (FBP). This protein is involved in step 1 of the subpathway that synthesizes sn-glycerol 3-phosphate from glycerol.
Purity And Specificity	This product was prepared from monospecific antiserum by a delipidation and defibrination. Assay by immunoelectrophoresis resulted in a single precipitin arc against anti-goat serum, purified and partially purified Glycerol Kinase [Cellulomonas species]. Cross reactivity against Glycerol Kinase from other sources is unknown.
Assay Dilutions	User Optimized
ELISA	1:4,000 - 1:20,000
Western Blot	1:500 - 1:2,000
Other Assays	User Optimized
Expiration	Expiration date is one (1) year from date of opening.
Immunogen	Glycerol Kinase [Cellulomonas species]
Related Products	
105-3102	Anti-GOAT IgG (H&L) (MOUSE) Antibody - 105-3102
105-4102	Anti-GOAT IgG (H&L) (RABBIT) Antibody - 105-4102
B304	NORMAL GOAT SERUM (NGS) - B304
B501-0500	BLOTTO Immunoanalytical Grade (Non-Fat Dry Milk) - B501-0500

Related Links

UniProtKB - D0VZG4

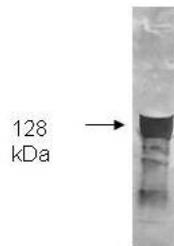
<http://www.uniprot.org/uniprot/D0VZG4>

NCBI - BAI49417.1 <http://www.ncbi.nlm.nih.gov/protein/BAI49417.1>

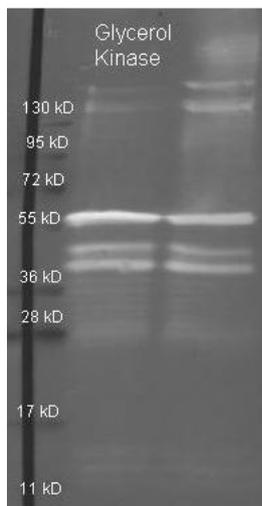
GeneID - 6960048

Images

- 1 Both the antiserum and IgG fractions of anti-Glycerol Kinase (Cellulomonas) are shown to detect the 128,000 dalton enzyme in cellular extracts. Approximately 10 ug of total protein is loaded per lane. A 1:4,000 dilution of the primary antibody is used followed by detection using HRP Rabbit-a-Goat IgG [H&L] (605-4302) diluted 1:4,000 and color development using 4-CN substrate until sufficient color develops. Other detection systems will yield similar results.



- 2 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

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.