

Datasheet for 200-1678S**Anti-Pyruvate Kinase Antibody Biotin Conjugated****Overview**

Description:	Anti-Pyruvate Kinase (Rabbit Muscle) (GOAT) Antibody Biotin Conjugated - 200-1678S
Item No.:	200-1678S
Size:	25 µL
Applications:	WB
Reactivity:	Rabbit
Host Species:	Goat

Product Details

Background:	Pyruvate Kinase is an enzyme that is key in the glycolytic process. Pyruvate Kinase's specific activity is to catalyze the transfer of a phosphate group from phosphoenolpyruvate to ADP, yielding one molecule of pyruvate and one molecule of ATP. A isoenzyme of Pyruvate Kinase, known as the M2, is a key area of study in tumorigenesis, as the M2 isoenzyme seems to elevate aerobic glycolysis in tumor cells, leading to tumor proliferation. Conflicting evidence as to the importance of this isoenzyme in tumor growth establishes this as a large area of exploration and study. Anti-Pyruvate Kinase Antibody is ideal for investigators in Cancer, Cell Biology, and Signal Transduction research.
Synonyms:	goat anti-Pyruvate Kinase Antibody, biotin Conjugated goat anti-Pyruvate Kinase Antibody, Pyruvate kinase isozymes M1/M2 antibody, Pyruvate kinase muscle isozyme antibody, Pyruvate kinase 2/3 antibody, Cytosolic thyroid hormone-binding protein antibody, PKM2
Host Species:	Goat
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PKM
Reactivity:	Rabbit
Immunogen Type:	Native Protein

Immunogen:	Pyruvate Kinase [Rabbit Muscle]
Purity/Specificity:	Anti-Pyruvate Kinase Antibody 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-Biotin, anti-Goat Serum as well as purified and partially purified Pyruvate Kinase [Rabbit Muscle]. Anti-Pyruvate Kinase has been reported to react with all forms of pyruvate kinase (pan M-PK). Cross reactivity against Pyruvate Kinase from other sources may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P11974 • NCBI - NP_001182574.1 • GeneID - 100008676

Application Details

Tested Applications:	WB
Application Note:	Anti-Pyruvate Kinase Biotin Antibody has been tested by western blot and is suitable to be assayed against 1.0 ug of Pyruvate Kinase in a standard capture ELISA using Peroxidase Conjugated Streptavidin #S000-03 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 1:3,000 to 1:15,000 of the reconstitution concentration is suggested for Anti-Pyruvate Kinase Antibody.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
WB:	1:200 - 1:1,000

Formulation

Physical State:	Liquid (sterile filtered)
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) Sodium Azide
Stabilizer:	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free

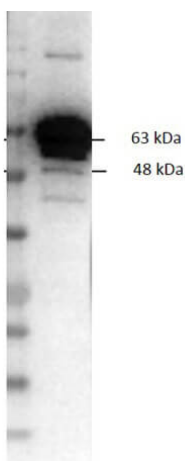
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C or below prior to opening. This vial contains a relatively low volume of reagent (25 µL). To minimize loss of volume dilute 1:10 by adding 225 µL of the buffer stated above directly to the vial. Recap, mix thoroughly and briefly centrifuge to collect the volume at the bottom of the vial. Use this intermediate dilution when calculating final dilutions as recommended below. Store the vial at -20°C or below after dilution. Avoid cycles of freezing and thawing.

Expiration: Expiration date is one (1) year from date of receipt.

Images



Western Blot

Western Blot of Goat Anti-Pyruvate Kinase Biotin Conjugate. Lane 1: Opal Prestain Molecular Weight Marker. Lane 2: 50ng of Pyruvate Kinase. Primary Antibody: Goat Anti-Pyruvate Kinase Biotin at 1µg/mL o/n @ 4C. Secondary Antibody: Streptavidin-HRP: S000-03 at 1:40,000 for 30 min at RT. Blocking: MB-070 for 30 min at RT.

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.