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+1 484.791.3823

Datasheet for 200-1678

Anti-Pyruvate Kinase Antibody Biotin Conjugated

Overview

Description:	Anti-Pyruvate Kinase (Rabbit Muscle) (GOAT) Antibody Biotin Conjugated (BULK ORDER) - 200-1678
Item No.:	200-1678
Size:	10 mg
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.
ELISA:	1:4,000 - 1:20,000
WB:	1:500 - 1:2,000

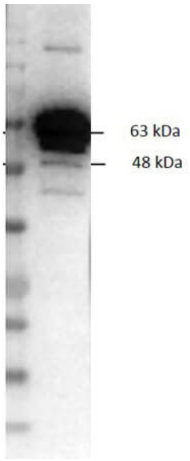
Formulation

Physical State:	Lyophilized
Concentration:	10.0 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
Reconstitution Volume:	1.0 mL
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-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 1ug/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

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