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Datasheet for 200-1653

Glucose-6-Phosphate Dehydrogenase Antibody Biotin Conjugated

Overview

Description:	Anti-Glucose-6-Phosphate Dehydrogenase (GOAT) Antibody Biotin Conjugated (BULK ORDER) - 200-1653
Item No.:	200-1653
Size:	10 mg
Applications:	ELISA, WB
Reactivity:	Leuconostoc mesenteroides
Host Species:	Goat

Product Details

Background:	Anti-Glucose-6-Phosphate Dehydrogenase recognizes the oxidoreductase glucose-6-phosphate dehydrogenase. Found in the cytosol, glucose-6-phosphate dehydrogenase is responsible for oxidizing glucose-6-phosphate and reducing NADP to NADPH as part of the pentose phosphate pathway. As such, glucose-6-phosphate dehydrogenase is crucial in the maintenance of NADPH levels. A deficiency of glucose-6-phosphate dehydrogenase is a risk factor for non-immune hemolytic anemia. Glucose-6-phosphate dehydrogenase may also play a role in cell growth and proliferation and therefore, cancer.
Synonyms:	goat anti-Glucose-6-Phosphate Dehydrogenase Antibody biotin Conjugation, biotin Conjugated goat anti-Glucose-6-Phosphate Dehydrogenase Antibody, G6PD antibody, G6PD1 antibody, G6pdx antibody, Glucose 6 phosphate 1 dehydrogenase antibody, MET19 antibody, POS10 antibody, Zwf1p antibody
Host Species:	Goat
Conjugate:	Biotin
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	zwf
Reactivity:	Leuconostoc mesenteroides

Immunogen Type:	Native Protein
Immunogen:	Glucose-6-Phosphate Dehydrogenase [Leuconostoc mesenteroides]
Purity/Specificity:	Anti-Glucose-6-Phosphate Dehydrogenase 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 Glucose-6-Phosphate Dehydrogenase [Leuconostoc mesenteroides]. Cross reactivity against Glucose-6-Phosphate Dehydrogenase from other sources may occur but have not been specifically determined.
Relevant Links:	• UniProtKB - P11411 • NCBI - P11411.4 • GeneID - 6063509

Application Details

Tested Applications:	ELISA, WB
Application Note:	Anti-Glucose-6-Phosphate Dehydrogenase Biotin has been tested by ELISA and western blot. This product is assayed against 1.0 ug of Glucose-6-Phosphate Dehydrogenase 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 1:1,000 to 1:5,000 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:	1:5,000 - 1:25,000
WB:	1:500 - 1:3,000

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.

Disclaimer

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