

Datasheet for 200-1653S

Glucose-6-Phosphate Dehydrogenase Antibody Biotin Conjugated

Overview

Description:	Anti-Glucose-6-Phosphate Dehydrogenase (GOAT) Antibody Biotin Conjugated - 200-1653S
Item No.:	200-1653S
Size:	25 µL
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-ethylbenzthiazoline-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 - 1:20,000
WB:	1:500 - 1:2,000

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
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.

Disclaimer

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