

Datasheet for 200-1353S

Glucose-6-Phosphate Dehydrogenase Antibody Peroxidase Conjugated

Overview

Description:	Anti-Glucose-6-Phosphate Dehydrogenase (GOAT) Antibody Peroxidase Conjugated - 200-1353S
Item No.:	200-1353S
Size:	25 µL
Applications:	ELISA, WB
Reactivity:	Leuconostoc mesenteroides
Host Species:	Goat

Product Details

Background:	Glucose-6-Phosphate Dehydrogenase is in the pentose phosphate pathway, a metabolic pathway that supplies reducing energy to cells (such as erythrocytes) by maintaining the level of the co-enzyme nicotinamide adenine dinucleotide phosphate (NADPH), which maintains the level of glutathione in these cells that helps protect the red blood cells against oxidative damage. Cell growth and proliferation are affected by Glucose-6-Phosphate Dehydrogenase. Glucose-6-Phosphate Dehydrogenase inhibitors are under investigation to treat cancers and other conditions. DHEA is a Glucose-6-Phosphate Dehydrogenase inhibitor.
Synonyms:	goat anti-Glucose-6-Phosphate Dehydrogenase Antibody HRP Conjugation, Peroxidase 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:	Peroxidase (HRP)
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	zwf
Reactivity:	Leuconostoc mesenteroides

Immunogen Type:	Native Protein
Immunogen:	Glucose-6-Phosphate-Dehydrogenase [Yeast]
Purity/Specificity:	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-Peroxidase, anti-Goat Serum as well as purified and partially purified Glucose-6-Phosphate-Dehydrogenase [Yeast]. Cross reactivity against Glucose-6-Phosphate-Dehydrogenase from other tissues and species 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 has been tested in ELISA and western blot. This product is assayed against 1.0 ug of Glucose-6-Phosphate-Dehydrogenase [Yeast] in a standard capture ELISA using 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 1:20,000 to 1:100,000 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) Gentamicin Sulfate. Do NOT add 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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