

Datasheet for 200-1153**Glucose-6-Phosphate Dehydrogenase Antibody****Overview**

Description:	Anti-Glucose-6-Phosphate Dehydrogenase (GOAT) Antibody (BULK ORDER) - 200-1153
Item No.:	200-1153
Size:	50 mg
Applications:	WB
Reactivity:	Leuconostoc mesenteroides
Host Species:	Goat

Product Details

Background:	Glucose-6-Phosphate Dehydrogenase catalyzes the oxidation of glucose 6-phosphate to 6-phosphogluconolactone. It can utilize either NADP+ or NAD+. This protein is involved in step 1 of the subpathway that synthesizes D-ribulose 5-phosphate from D-glucose 6-phosphate (oxidative stage).
Synonyms:	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
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-Goat Serum as well as purified and partially purified Glucose-6-Phosphate Dehydrogenase [Leuconostoc mesenteroides]. Cross reactivity against Glucose-6-Phosphate Dehydrogenase from other tissues and species may occur but have not been specifically determined.

Relevant Links:

- [UniProtKB - P11411](#)
- [GeneID - 6063509](#)

Application Details

Tested Applications: WB

Application Note: Anti-Glucose-6-Phosphate Dehydrogenase Antibody has been tested by western blot and is suitable to be assayed against 1.0 ug of Glucose-6-Phosphate Dehydrogenase [Leuconostoc mesenteroides] in a standard ELISA using Peroxidase conjugated Affinity Purified anti-Goat IgG [H&L] (Rabbit) code #605-4302 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. Researchers should determine optimal titers for other applications.

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: None

Reconstitution Volume: 5.0 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

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.