

**Anti-GLUCOSE-6-PHOSPHATE DEHYDROGENASE (GOAT) Antibody Peroxidase Conjugated  
Glucose-6-Phosphate Dehydrogenase Antibody Peroxidase Conjugated  
Catalog # ASR4092****Specification****Anti-GLUCOSE-6-PHOSPHATE DEHYDROGENASE (GOAT) Antibody Peroxidase Conjugated  
- Product Information**

Host	Goat
Conjugate	Peroxidase (Horseradish)
Target Species	Leuconostoc mesenteroides
Clonality	Polyclonal
Application	WB, E, I, LCI
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.
Physical State	Lyophilized
Buffer	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Immunogen	Glucose-6-Phosphate-Dehydrogenase [Yeast]
Reconstitution Volume	100 µL
Reconstitution Buffer	Restore with deionized water (or equivalent)
Stabilizer	10 mg/mL Bovine Serum Albumin (BSA) - Immunoglobulin and Protease free
Preservative	0.01% (w/v) Gentamicin Sulfate. Do NOT add Sodium Azide!

**Anti-GLUCOSE-6-PHOSPHATE DEHYDROGENASE (GOAT) Antibody Peroxidase Conjugated  
- Additional Information****Other Names**

6063509

**Purity**

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.

#### **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.

#### **Precautions Note**

This product is for research use only and is not intended for therapeutic or diagnostic applications.

### **Anti-GLUCOSE-6-PHOSPHATE DEHYDROGENASE (GOAT) Antibody Peroxidase Conjugated - Protein Information**

**Name** zwf {ECO:0000255|HAMAP-Rule:MF\_00966}

#### **Function**

Catalyzes the oxidation of glucose 6-phosphate to 6- phosphogluconolactone. Can utilize either NADP(+) or NAD(+).

### **Anti-GLUCOSE-6-PHOSPHATE DEHYDROGENASE (GOAT) Antibody Peroxidase Conjugated - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **Anti-GLUCOSE-6-PHOSPHATE DEHYDROGENASE (GOAT) Antibody Peroxidase Conjugated - Images**

### **Anti-GLUCOSE-6-PHOSPHATE DEHYDROGENASE (GOAT) Antibody Peroxidase Conjugated - 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.