

Porcine 6-Phosphogluconate Dehydrogenase, Decarboxylating (PGD) ELISA Kit-Sandwich

Cat. No.: EK12F530

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Porcine 6-Phosphogluconate Dehydrogenase, Decarboxylating (PGD) ELISA Kit-Sandwich is designed for the quantitative determination of Porcine 6-Phosphogluconate Dehydrogenase, Decarboxylating (PGD) in serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Porcine PGD.
Target Species	Swine
Species Reactivity	Swine
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 10%
Assay Time	Around 270 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell extract, and other biological fluids.

Target Information

6-Phosphogluconate Dehydrogenase, Decarboxylating is encoded by the *PGD* gene in pigs. 6-phosphogluconate dehydrogenase is an enzyme in the pentose phosphate pathway (PPP) that catalyzes the conversion of 6-phosphogluconate to an unstable form of 3-keto-6-phosphogluconate. This reaction yields a co-enzyme nicotinamide adenine dinucleotide phosphate (NADPH) as a byproduct. The protein is a homodimer, where each monomer acts independently. Each monomer contains a large, mainly alpha-helical domain and a smaller beta-alpha-beta domain with a mixed parallel and anti-parallel 6-stranded beta sheet.

Target/Biomarker	Porcine PGD
Target Synonym	6-phosphogluconate dehydrogenase; decarboxylating; PGD; 1.1.1.44
Gene ID	397546
UniProt ID	P14332

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

Reference

Daneshmandi, S. *et al.* 6-Phosphogluconate dehydrogenase (6PGD), a key checkpoint in reprogramming of regulatory T cells metabolism and function. *eLife*. 2021, 10: e67476.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.