

PHGDH Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2936a**Specification**

PHGDH Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O43175](#)**PHGDH Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 26227**Other Names**

D-3-phosphoglycerate dehydrogenase, 3-PGDH, PHGDH, PGDH3

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2936a](/products/AP2936a) was selected from the N-term region of human PHGDH. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PHGDH Antibody (N-term) Blocking Peptide - Protein Information**Name** PHGDH**Synonyms** PGDH3**Function**

Catalyzes the reversible oxidation of 3-phospho-D-glycerate to 3-phosphonooxypyruvate, the first step of the phosphorylated L- serine biosynthesis pathway. Also catalyzes the reversible oxidation of 2-hydroxyglutarate to 2-oxoglutarate and the reversible oxidation of (S)-malate to oxaloacetate.

PHGDH Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

PHGDH Antibody (N-term) Blocking Peptide - Images

PHGDH Antibody (N-term) Blocking Peptide - Background

3-Phosphoglycerate dehydrogenase catalyzes the transition of 3-phosphoglycerate into 3-phosphohydroxypyruvate, which is the first and rate-limiting step in the phosphorylated pathway of serine biosynthesis, using NAD⁺/NADH as a cofactor.

PHGDH Antibody (N-term) Blocking Peptide - References

Klomp, L.W., et.al., Am. J. Hum. Genet. 67 (6), 1389-1399 (2000)