

PHGDH Antibody (N-term)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2936a

Specification

PHGDH Antibody (N-term) - Product Information

Application	WB, IHC-P, FC,E
Primary Accession	O43175
Other Accession	A5GFY8 , Q61753 , Q60HD7 , Q5EAD2
Reactivity Predicted	Human, Mouse Bovine, Monkey, Pig
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	56651
Antigen Region	140-168

PHGDH Antibody (N-term) - Additional Information

Gene ID 26227

Other Names

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

Target/Specificity

This PHGDH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 140-168 amino acids from the N-terminal region of human PHGDH.

Dilution

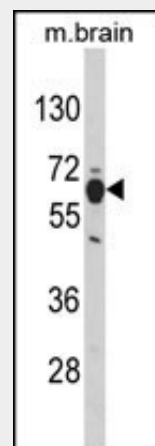
WB~~1:1000
IHC-P~~1:50~100
FC~~1:10~50

Format

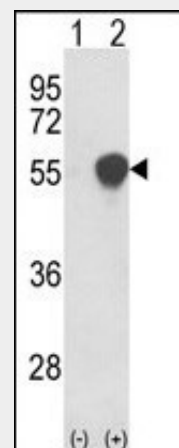
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw



Western blot analysis of PHGDH Antibody (N-term) (Cat. #AP2936a) in mouse brain tissue lysates (35ug/lane). PHGDH (arrow) was detected using the purified Pab.



Western blot analysis of PHGDH (arrow) using rabbit polyclonal PHGDH Antibody (N-term) (Cat. #AP2936a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PHGDH gene (Lane 2) .

cycles.

Precautions

PHGDH Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PHGDH Antibody (N-term) - Protein Information

Name PHGDH

Synonyms PGDH3

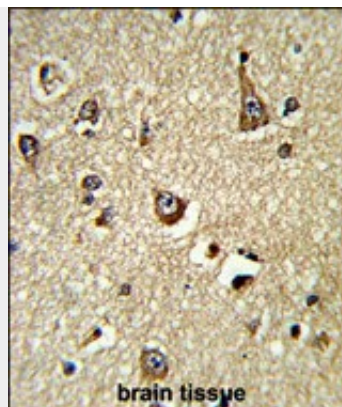
Function

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.

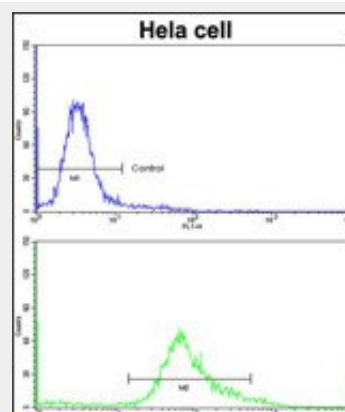
PHGDH Antibody (N-term) - Protocols

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](#)



Formalin-fixed and paraffin-embedded human brain tissue reacted with PHGDH Antibody (N-term), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.



Flow cytometric analysis of hela cells using PHGDH Antibody (N-term)(bottom histogram) compared to a negative control cell (top histogram) FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

PHGDH Antibody (N-term) - 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) - References

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