10320 Camino Santa Fe, Suite G
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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	Q43175
Other Accession	A5GFY8, Q61753, Q60HD7, Q5EAD2
Reactivity	**Human, Mouse**
Predicted	**Bovine, Monkey, Pig**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
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 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

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Synonyms PGDH3

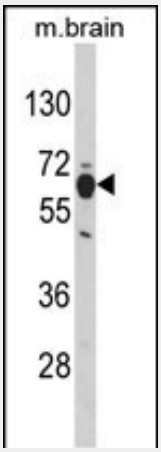
Function Catalyzes the reversible oxidation of 3-phospho-D-glycerate to 3-phosphonooxypyruvate, the first step of the phosphorylated L- serine biosynthesis pathway. Also catalyzes the reversible oxidation of 2-hydroxyglutarate to 2-oxoglutarate and the reversible oxidation of (S)-malate to oxaloacetate.

PHGDH Antibody (N-term) - Protocols

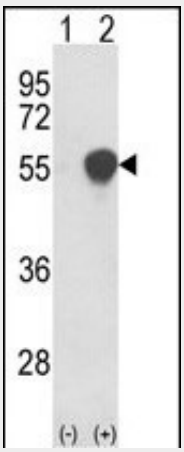
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PHGDH Antibody (N-term) - Images

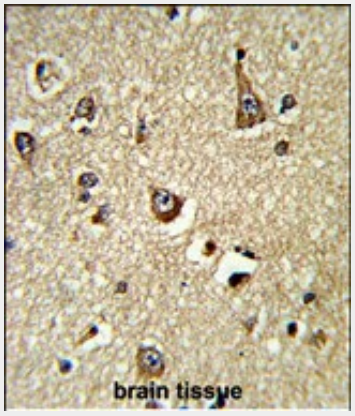


Western blot analysis of PHGDH Antibody (N-term) (Cat. #AP2936a) in mouse brain tissue lysates (35ug/lane). PHGDH (arrow) was detected using the purified Pab.

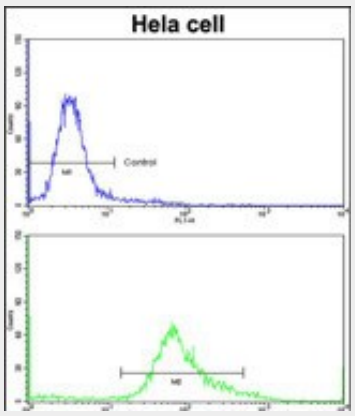


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Western blot analysis of PHGDH (arrow) using rabbit polyclonal PHGDH Antibody (N-term) (Cat. #AP2936a). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the PHGDH gene (Lane 2) .



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)