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PHGDH Rabbit pAb

Catalog No.: A10461 **6 Publications**

Basic Information

Observed MW
57kDa

Calculated MW
57kDa

Category
Primary antibody

Applications
WB,IF/ICC,IP,ELISA

Cross-Reactivity
Human, Mouse, Rat

Background

This gene encodes the enzyme which is involved in the early steps of L-serine synthesis in animal cells. L-serine is required for D-serine and other amino acid synthesis. The enzyme requires NAD/NADH as a cofactor and forms homotetramers for activity. Mutations in this gene have been found in a family with congenital microcephaly, psychomotor retardation and other symptoms. Multiple alternatively spliced transcript variants have been found, however the full-length nature of most are not known.

Recommended Dilutions

WB	1:500 - 1:1000
IF/ICC	1:100 - 1:500
IP	0.5μg-4μg antibody for 200μg-400μg extracts of whole cells
ELISA	Recommended starting concentration is 1 μg/mL. Please optimize the concentration based on your specific assay requirements.

Immunogen Information

Gene ID
26227

Swiss Prot
O43175

Immunogen
Recombinant protein (or fragment).This information is considered to be commercially sensitive.

Synonyms
NLS; PDG; PGD; NLS1; PGAD; PGDH; SERA; 3PGDH; 3-PGDH; PHGDHD; HEL-S-113; PHGDH

Contact

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Product Information

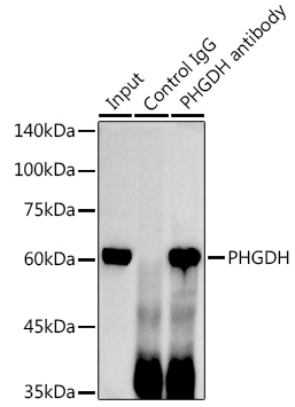
Source
Rabbit

Isotype
IgG

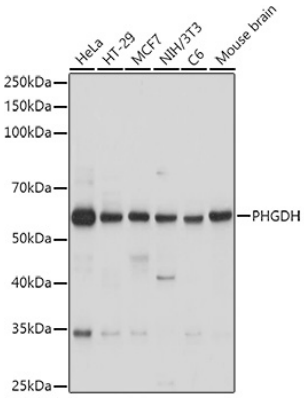
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS containing 50% glycerol, preserved with proclin300 or sodium azide (as specified on the Certificate of Analysis), pH 7.3.

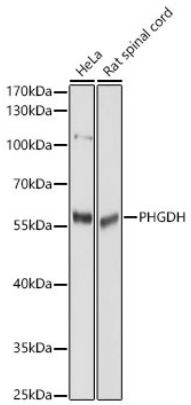
Validation Data



Immunoprecipitation analysis of 300 µg extracts of HeLa cells using 3 µg PHGDH antibody (A10461).
Western blot was performed from the immunoprecipitate using PHGDH antibody (A10461) at a dilution of 1:1000.

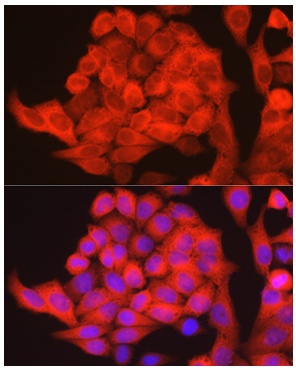


Western blot analysis of various lysates using PHGDH Rabbit pAb (A10461) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 1s.

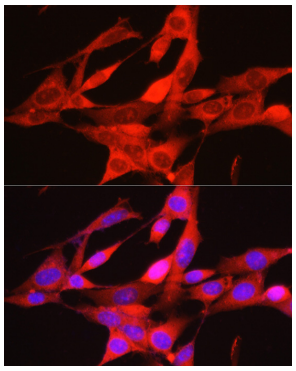


Western blot analysis of various lysates using PHGDH Rabbit pAb (A10461) at 1:1000 dilution.
Secondary antibody: HRP-conjugated Goat anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates / proteins: 25 µg per lane.
Blocking buffer: 3 % nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 5s.

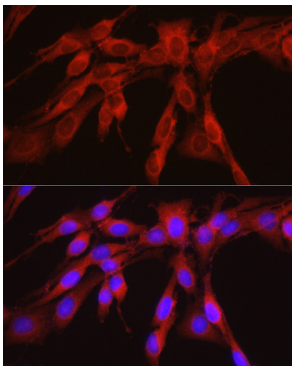
Validation Data



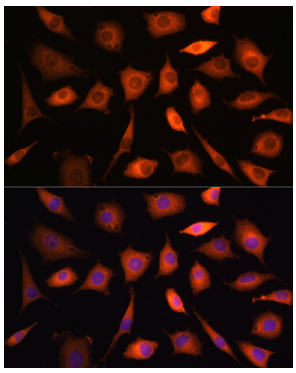
Immunofluorescence analysis of HeLa cells using PHGDH Rabbit pAb (A10461) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



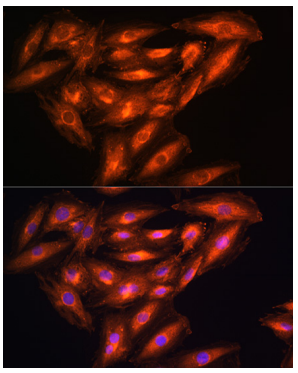
Immunofluorescence analysis of NIH/3T3 cells using PHGDH Rabbit pAb (A10461) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



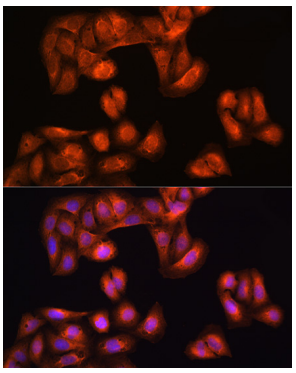
Immunofluorescence analysis of PC-12 cells using PHGDH Rabbit pAb (A10461) at dilution of 1:300 (40x lens). Secondary antibody: Cy3-conjugated Goat anti-Rabbit IgG (H+L) (AS007) at 1:500 dilution. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of L929 cells using PHGDH Rabbit pAb (A10461) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of H9C2 cells using PHGDH Rabbit pAb (A10461) at dilution of 1:100. Blue: DAPI for nuclear staining.



Immunofluorescence analysis of U2OS cells using PHGDH Rabbit pAb (A10461) at dilution of 1:100. Blue: DAPI for nuclear staining.