

Product datasheet for TA379876

PHGDH Rabbit Polyclonal Antibody

Product data:

Product Type: Primary Antibodies

Applications: ICC/IF, IP, WB

Recommended Dilution: WB,1:500 - 1:2000

IF,1:50 - 1:200 IP,1:50 - 1:200

Reactivity: Human, Mouse, Rat

Modifications: Unmodified

Host: Rabbit Isotype: IgG

Clonality: Polyclonal

Immunogen: Recombinant fusion protein containing a sequence corresponding to amino acids 264-533 of

human PHGDH (NP_006614.2).

Formulation: Buffer: PBS with 0.02% sodium azide,50% glycerol,pH7.3.

Concentration: lot specific

Purification: Affinity purification

Conjugation: Unconjugated

Storage: Store at -20°C. Avoid freeze / thaw cycles.

Stability: Shelf life: one year from despatch.

Predicted Protein Size: 56kDa

Gene Name: phosphoglycerate dehydrogenase

Database Link: <u>Entrez Gene 26227 Human</u>

O43175

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.



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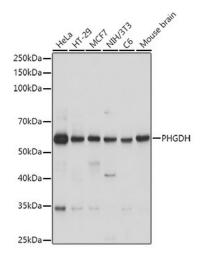
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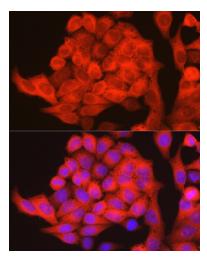
Synonyms:

3-PGDH; 3PGDH; MGC3017; PDG; PGAD; PGDH; PGDH3; SERA

Product images:

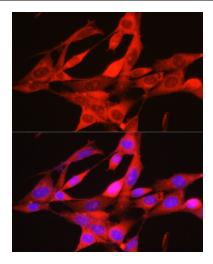


Western blot analysis of extracts of various cell lines, using PHGDH antibody (TA379876) at 1:1000 dilution. | Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) at 1:10000 dilution. | Lysates/proteins: 25ug per lane. | Blocking buffer: 3% nonfat dry milk in TBST. | Detection: ECL Basic Kit. | Exposure time: 1s.

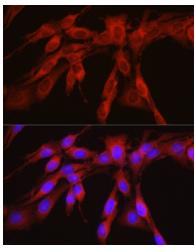


Immunofluorescence analysis of HeLa cells using PHGDH Rabbit pAb (TA379876) at dilution of 1:300 (40x lens). Blue: DAPI for nuclear staining.

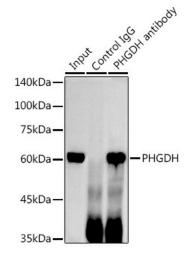




Immunofluorescence analysis of NIH/3T3 cells using PHGDH Rabbit pAb (TA379876) at dilution of 1:300 (40x lens). Blue: DAPI for nuclear staining.



Immunofluorescence analysis of PC-12 cells using PHGDH Rabbit pAb (TA379876) at dilution of 1:300 (40x lens). Blue: DAPI for nuclear staining.



Immunoprecipitation analysis of 300ug extracts of HeLa cells using 3ug PHGDH antibody (TA379876). Western blot was performed from the immunoprecipitate using PHGDH antibody (TA379876) at a dilition of 1:1000.