

## Product datasheet for **TA351523**

### PHGDH Rabbit Polyclonal Antibody

#### Product data:

|                         |  |
|-------------------------|--|
| Product Type:           | Primary Antibodies   |
| Applications:           | WB   |
| Recommended Dilution:   | WB: 200-1000<br>WB positive control: NIH/3T3 and A431 cells  |
| Reactivity:             | Human, Mouse, Rat  |
| Host:                   | Rabbit   |
| Isotype:                | IgG  |
| Clonality:              | Polyclonal   |
| Immunogen:              | Synthetic peptide of human PHGDH   |
| Formulation:            | pH7.4 PBS, 0.05% NaN <sub>3</sub> , 40% Glycerol   |
| Concentration:          | lot specific   |
| Purification:           | Antigen affinity purification  |
| Conjugation:            | Unconjugated   |
| Storage:                | Store at -20°C as received.  |
| Stability:              | Stable for 12 months from date of receipt.   |
| Predicted Protein Size: | 57 kDa   |
| Gene Name:              | phosphoglycerate dehydrogenase   |
| Database Link:          | <a href="#">NP_006614</a><br><a href="#">Entrez Gene 58835 Rat</a> <a href="#">Entrez Gene 236539 Mouse</a> <a href="#">Entrez Gene 26227 Human</a><br><a href="#">O43175</a>  |
| 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. |
| Synonyms:               | 3-PGDH; 3PGDH; HEL-S-113; NLS; NLS1; PDG; PGAD; PGD; PGDH; PHGDHD; SERA  |



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Protein Families: Druggable Genome, Stem cell - Pluripotency

Protein Pathways: Glycine, serine and threonine metabolism, Metabolic pathways

### Product images:



Gel: 8%SDS-PAGE

Lysate: 40  $\mu$ g

Lane 1-2: NIH/3T3 cells

A431 cells

Primary antibody: TA351523 (PHGDH Antibody)  
at dilution 1/400

Secondary antibody: Goat anti rabbit IgG at  
1/8000 dilution

Exposure time: 1 minute