

## Product datasheet for **TA351523S**

### PHGDH Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB: 200-1000 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
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> <a href="#">Entrez Gene 58835 Rat</a> <a href="#">Entrez Gene 236539 Mouse</a> <a href="#">Entrez Gene 26227 Human</a> <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
Protein Families:	Druggable Genome, Stem cell - Pluripotency



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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