

Rabbit PHGDH Polyclonal Antibody | anti-PHGDH antibody

Phospho-PHGDH (Thr78) Antibody

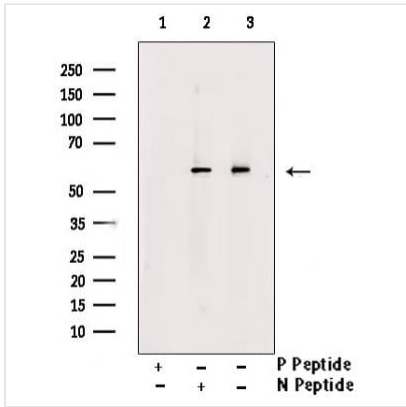
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA329413	Rabbit	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)	ELISA, Western Blot

PRODUCT SYNONYMS

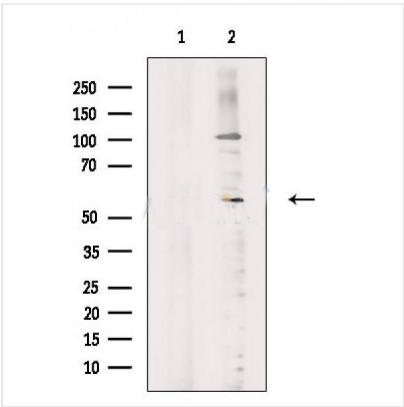
PHGDH; Polyclonal Antibody; Phospho-PHGDH (Thr78) Antibody; 3 PGDH; 3-PGDH; 3-phosphoglycerate dehydrogenase; 3PGDH; D-3-phosphoglycerate dehydrogenase; EC 1.1.1.95; Epididymis secretory protein Li 113; HEL S 113; NLS; NLS1; PDG; PGAD; PGD; PGDH; PGDH3; Phgdh; PHGDHD; Phosphoglycerate dehydrogenase; SERA; SERA_HUMAN; anti-PHGDH antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat Predicted Reactivity: Pig (100%), Zebrafish (92%), Bovine (100%), Horse (100%), Sheep (100%), Rabbit (100%), Dog (100%), Xenopus (100%)
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	Phospho-PHGDH (Thr78) Antibody detects endogenous levels of PHGDH only when phosphorylated at Thr78.
Purity/Purification	The antibody is from purified rabbit serum by affinity purification via sequential chromatography on phospho-peptide and non-phospho-peptide affinity columns.
Form/Format	Liquid. Rabbit IgG in phosphate buffered saline, pH7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Applicable Applications for anti-PHGDH antibody	ELISA (Peptide ELISA), WB (Western Blot)
Immunogen	A synthesized peptide derived from human PHGDH around the phosphorylation site of Thr78.
Conjugation	Unconjugated
Fragment	Fab fragment
Subunit Structure	Homotetramer.
Similarity	Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.



WB (Western Blot)
Western blot analysis of extracts from HT29, using Phospho-PHGDH(Thr78) Antibody. Lane1 was treated with phospho-blocking peptide, Lane2 was treated with non-phospho-blocking peptide.



WB (Western Blot)
Western blot analysis of extracts from RAW264.7 cells(LPS 4h treatment), using Phospho-PHGDH (Thr78) Antibody. The lane on the left was treated with blocking peptide.

ADDITIONAL INFORMATION

Related Product Information for anti-PHGDH antibody	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.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	21264510
NCBI GeneID	26227
UniProt Accession #	O43175; Q5SZU3; Q9BQ01; B2RD08
Molecular Weight	533
NCBI Official Full Name	D-3-phosphoglycerate dehydrogenase
NCBI Official Synonym Full Names	phosphoglycerate dehydrogenase
NCBI Official Symbol	PHGDH
NCBI Official Synonym Symbols	NLS; PDG; PGD; NLS1; PGAD; PGDH; SERA; 3PGDH; 3-PGDH; PHGDHD; HEL-S-113
NCBI Protein Information	D-3-phosphoglycerate dehydrogenase; epididymis secretory protein Li 113
UniProt Protein Name	D-3-phosphoglycerate dehydrogenase
UniProt Gene Name	PHGDH
UniProt Synonym Gene Names	PGDH3; 3-PGDH
UniProt Entry Name	SERA_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.