Rabbit PHGDH Polyclonal Antibody | anti-PHGDH antibody

PHGDH Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA285927	**Rabbit**	**Human (Predicted Reactivity: Monkey, Mouse, Rat)**	**Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot**

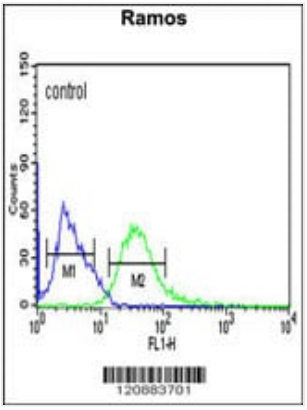
PRODUCT SYNONYMS

PHGDH; Polyclonal Antibody; PHGDH Antibody (Center); D-3-phosphoglycerate dehydrogenase; 3-PGDH; PGDH3; anti-PHGDH antibody

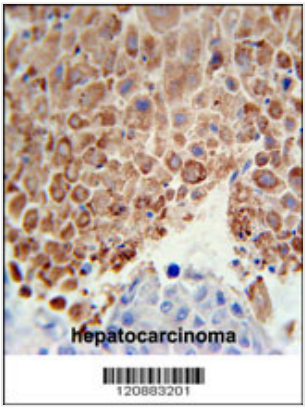
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Monkey, Mouse, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This PHGDH antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 249-277 amino acids from the Central region of human PHGDH.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	249-277
Sequence Length	533
Applicable Applications for anti-PHGDH antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

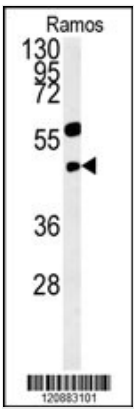
IMAGES



FCM/FACS (Flow Cytometry)
PHGDH Antibody (Center) flow cytometric analysis of Ramos cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



IHC (Immunohiostchemistry)
PHGDH Antibody (Center) immunohistochemistry analysis in formalin fixed and paraffin embedded human hepatocarcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the PHGDH Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



WB (Western Blot)
PHGDH Antibody (Center) western blot analysis in Ramos cell line lysates (15ug/lane).This demonstrates the PHGDH antibody detected the PHGDH protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-PHGDH antibody	3-Phosphoglycerate dehydrogenase (PHGDH; EC 1.1.1.95) catalyzes the transition of 3-phosphoglycerate into 3-phosphohydroxypyruvate, which is the first and rate-limiting step in the phosphorylated pathway of serine biosynthesis, using NAD+/NADH as a cofactor.
Product Categories/Family for anti-PHGDH antibody	Metabolism; Neuroscience; Signal Transduction
References	Du, H., et al. Reproduction 139(1):237-245(2010) Burton, R.L., et al. Biochemistry 48(22):4808-4815(2009) Kim, J.W., et al. Psychiatr. Genet. 19 (3), 161 (2009) : Tabatabaie, L., et al. Hum. Mutat. 30(5):749-756(2009)

NCBI AND UNIPROT INFORMATION

NCBI GI #	23308577
NCBI GeneID	26227
NCBI Accession #	NP_006614.2
NCBI GenBank Nucleotide #	NM_006623.3

UniProt Accession #	O43175; Q5SZU3; Q9BQ01; B2RD08
Molecular Weight	56651
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
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.

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Online datasheet: https://stage.aaabiotech.com/polyclonal/phgdh-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/285927