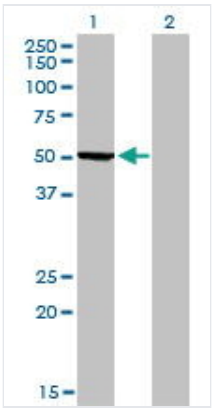
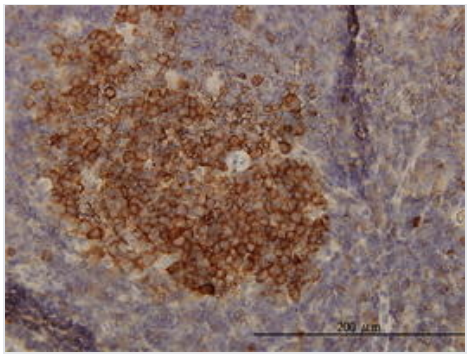
PHGDH Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

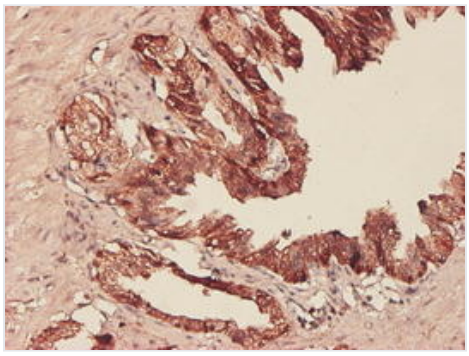
Product Name	PHGDH, Monoclonal Antibody
Full Product Name	PHGDH (D-3-phosphoglycerate Dehydrogenase, 3-PGDH, PGDH3, MGC3017, SERA) (AP)
Product Gene Name	anti-PHGDH antibody
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	4A3-1D6
Host	Mouse
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Protein A Affinity Chromatography.
Specificity	Recognizes human PHGDH.
Preparation and Storage	Store product at 4 degree C. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amount only pri
Immunogen	Full length recombinant corresponding to aa1-533 from human PHGDH (AAH11262) with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAFANLRKVLISDSLDPCCRKILQDGGLQVVEKQNLSKEELIAELQDCEGLIVRSATKVTADVINAAEKLQVVGRAGTGVDNVDLEAATRKGILVMNTPNGN
Conjugate	AP
Product Categories/Family for anti-PHGDH antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-PHGDH antibody	ELISA (EIA), Immunohistochemistry (IHC) Paraffin, Immunoprecipitation (IP), Western Blot (WB)
Application Notes for anti-PHGDH antibody	IHC-P: 1-10ug/ml Applications are based on unconjugated antibody.
Related Product Information for anti-PHGDH antibody	MBS6132915 is an antibody targeting PHGDH. Also known as PHGDH (D-3-phosphoglycerate Dehydrogenase, 3-PGDH, PGDH3, MGC3017, SERA)
Product References and Citations for anti-PHGDH antibody	1. Enhanced serine production by bone metastatic breast cancer cells stimulates osteoclastogenesis. Pollari S, Kakonen SM, Edgren H, Wolf M, Kohor
Other Notes	Small volumes of anti-PHGDH antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If neces



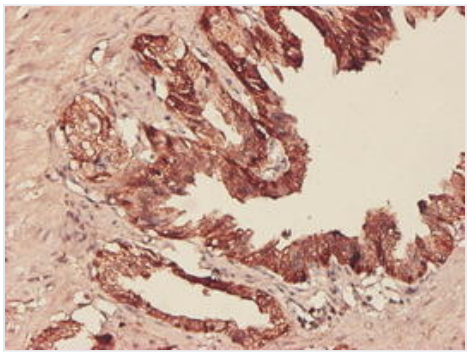
Western Blot (WB) of anti-PHGDH antibody
Western Blot analysis of PHGDH expression in transfected 293T cell line by PHGDH monoclonal antibody. Lane 1: PHGDH transfected lysate (56.7kD). Lane 2: Non-transfected lysate.



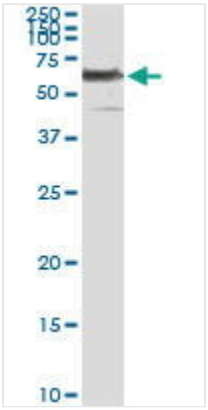
Immunohistochemistry (IHC) of anti-PHGDH antibody
Immunoperoxidase of monoclonal antibody to PHGDH on formalin-fixed paraffin-embedded human lymph node. [antibody concentration 1-10ug/ml]



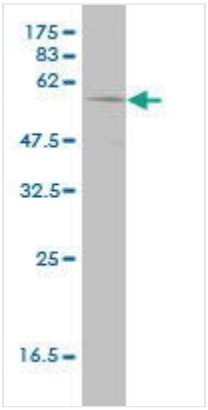
Immunohistochemistry (IHC) of anti-PHGDH antibody
Immunoperoxidase of monoclonal antibody to PHGDH on formalin-fixed paraffin-embedded human prostate. [antibody concentration 3ug/ml]



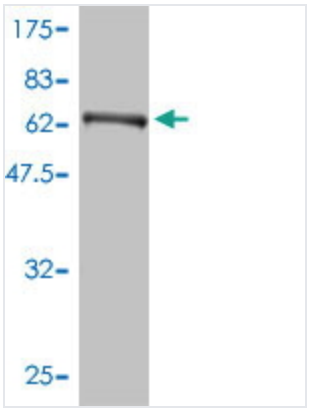
Immunofluorescence (IF) of anti-PHGDH antibody
Immunofluorescence of monoclonal antibody to PHGDH on HeLa cell. [antibody concentration 1-10ug/ml]



Immunoprecipitation (IP) of anti-PHGDH antibody
Immunoprecipitation of PHGDH transfected lysate using PHGDH monoclonal antibody and Protein A Magnetic Bead, and immunoblotted with PHGDH rabbit polyclonal antibody.



Western Blot (WB) of anti-PHGDH antibody
PHGDH monoclonal antibody. Western Blot analysis of PHGDH expression in human liver.



Western Blot (WB) of anti-PHGDH antibody
Western Blot detection against Immunogen (84.74kD).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for PHGDH. It may not necessarily be applicable to this product.

NCBI GI #	15030034
NCBI GeneID	26227
NCBI Accession #	BC011262
NCBI Related Accession #	AAH11262
UniProt Related Accession #	O43175
NCBI Official Full Name	Homo sapiens phosphoglycerate dehydrogenase, mRNA
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
NCBI Summary for PHGDH	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. [provided by RefSeq, Aug 2011]
Research Articles on PHGDH	**1.** Authors find that PHGDH(high) breast cancer cell lines are exquisitely sensitive to inhibition of the NAD(+) salvage pathway. Further, authors find that PHGDH protein levels and those of the rate-limiting enzyme of NAD(+) salvage, NAMPT, correlate in ER-negative, basal-like breast cancers.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.

Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/monoclonal-human-antibody/phgdh/6132915