PHGDH Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	PHGDH, Monoclonal Antibody
Full Product Name	PHGDH (Phosphoglycerate Dehydrogenase, 3-PGDH, 3PGDH, MGC3017, PDG, PGAD, PGD, PGDH, SERA) (MaxLight 405)
Product Gene Name	anti-PHGDH antibody
Product Synonym Names	Phosphoglycerate Dehydrogenase; 3-PGDH; 3PGDH; MGC3017; PDG; PGAD; PGD; PGDH; SERA
Clonality	Monoclonal
Isotype	IgG1,k
Clone Number	4D5-1F11
Host	Mouse
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with MaxLight405.
Purity/Purification	Purified
Specificity	Recognizes PHGDH.
Preparation and Storage	Store product at 4 degree C in the dark. DO NOT FREEZE! Stable at 4 degree C for 12 months after receipt as an undiluted liquid. Dilute required amo
Molecular Weight	56,651 Da
Chromosome Location	Chromosome: 1; NC_000001.11 (119711796..119744226). Location: 1p12
OMIM	phenotype 606879
3D Structure	ModBase 3D Structure for O43175
Immunogen	PHGDH (AAH11262.1, 1aa-533aa) full-length recombinant protein with GST tag. MW of the GST tag alone is 26kD.
Immunogen Sequence	MAFANLRKVLISDSLDPCCRKILQDGGLQVVEKQNLSKEELIAELQDCEGLIVRSATKVTADVINAAEKLQVVGRAGTGVDNVDLEAATRKGILVMNTPNGN
Conjugate	MaxLight405
Product Categories/Family for anti-PHGDH antibody	Antibodies; Enzymes; Dehydrogenase
Applications Tested/Suitable for anti-PHGDH antibody	FLISA, Western Blot (WB)
Application Notes for anti-PHGDH antibody	Applications are based on unconjugated antibody.

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 th
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
Searchable Terms for PHGDH purchase	MBS6197220 is an antibody targeting PHGDH. Also known as PHGDH (Phosphoglycerate Dehydrogenase, 3-PGDH, 3PGDH, MGC3017, PDG, PGAD

ADDITIONAL DETAILS

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

NCBI GI #	15030035
NCBI GeneID	26227
NCBI Accession #	AAH11262.1
UniProt Primary Accession #	O43175
UniProt Secondary Accession #	Q5SZU3; Q9BQ01; B2RD08
UniProt Related Accession #	O43175
NCBI Official Full Name	Phosphoglycerate dehydrogenase
NCBI Official Synonym Full Names	phosphoglycerate dehydrogenase
NCBI Official Symbol	PHGDH
NCBI Official Synonym Symbols	PDG; PGD; PGAD; PGDH; SERA; 3PGDH; 3-PGDH; HEL-S-113
UniProt Protein Name	D-3-phosphoglycerate dehydrogenase
UniProt Gene Name	PHGDH
UniProt Synonym Gene Names	PGDH3; 3-PGDH
UniProt Entry Name	SERA_HUMAN
NCBI Protein Information	D-3-phosphoglycerate dehydrogenase; epididymis secretory protein Li 113
UniProt Comments for PHGDH	PHGDH: Defects in PHGDH are the cause of phosphoglycerate dehydrogenase deficiency (PHGDH deficiency). It is characterized by congenital microcephaly, psychomotor retardation, and seizures. Belongs to the D-isomer specific 2-hydroxyacid dehydrogenase family. Protein type: Oxidoreductase; Amino Acid Metabolism - glycine, serine and threonine; EC 1.1.1.95; Cell development/differentiation Chromosomal Location of Human Ortholog: 1p12 Cellular Component: cytosol Molecular Function: electron carrier activity; NAD binding; phosphoglycerate dehydrogenase activity Biological Process: neural tube development; glial cell development; glycine metabolic process; gamma-aminobutyric acid metabolic process; glutamine metabolic process; L-serine biosynthetic process; spinal cord development; regulation of gene expression; amino acid biosynthetic process; brain development; taurine metabolic process; neurite development; threonine metabolic process Disease: Phosphoglycerate Dehydrogenase Deficiency; Neu-laxova Syndrome 1

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