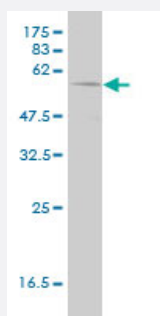


PHGDH monoclonal antibody (M01), clone 4A3-1D6

Catalog # H00026227-M01

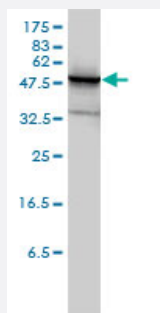
Size 100 ug

Applications



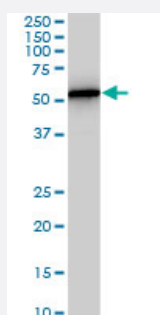
Western Blot (Tissue lysate)

PHGDH monoclonal antibody (M01), clone 4A3-1D6. Western Blot analysis of PHGDH expression in human liver.



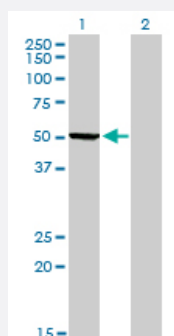
Western Blot (Cell lysate)

PHGDH monoclonal antibody (M01), clone 4A3-1D6 Western Blot analysis of PHGDH expression in Jurkat (Cat # L017V1).



Western Blot (Cell lysate)

PHGDH monoclonal antibody (M01), clone 4A3-1D6. Western Blot analysis of PHGDH expression in A-431 (Cat # L015V1).

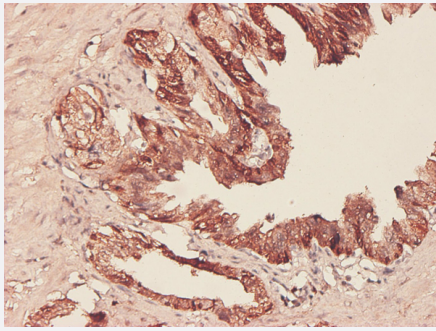


Western Blot (Transfected lysate)

Western Blot analysis of PHGDH expression in transfected 293T cell line by PHGDH monoclonal antibody (M01), clone 4A3-1D6.

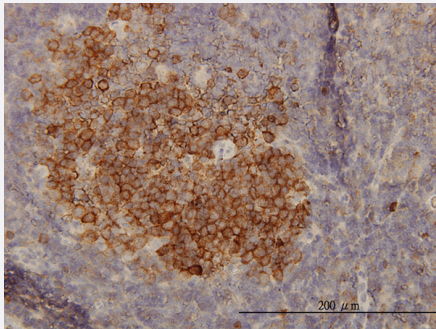
Lane 1: PHGDH transfected lysate(56.7 KDa).

Lane 2: Non-transfected lysate.



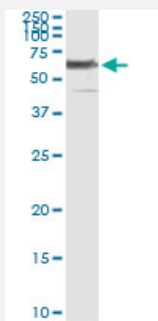
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



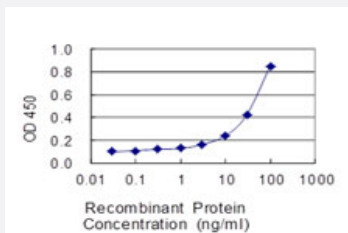
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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



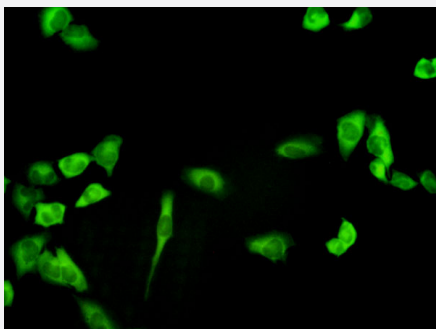
Immunoprecipitation

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



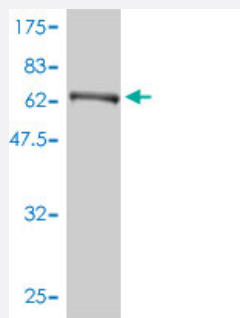
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PHGDH is 1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to PHGDH on HeLa cell. [antibody concentration 1 ~ 10 ug/ml]



Western Blot detection against Immunogen (84.37 KDa) .

Specification

Product Description	Mouse monoclonal antibody raised against a full length recombinant PHGDH.
Immunogen	PHGDH (AAH11262.1, 1 a.a. ~ 533 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MAFANLRKVLISDSLDPCCRKILQDGGGLQVVEKQNLKEELIAELQDCEGLMRSATKVTADVINA EKLQVVGRAAGTGVNDVLEAATRKGLVMNTPNGNSLSAAELTCGMIMCLARQIPQATASMKDGK WERKKFMGTENGLKTLGILGLGRIGREVATRMQSFGMKTIGYDPIISPEVSASFVQQLPLEEWPL CDFITVHTPLLPSTTGLLNDNTFAQCKKGVVNCARGGIVDEGALLRALQSGQCAGAALDVFT EPPRDRALVDHENVISCPHLGASTKEAQSRCGEEIAVQFVDMVKGKSLTGVVNAQALTSFSPH TKPWIGLAEALGTLMAWAGSPKGTIQVITQGTSLKNAGNCLSPAVIVGLLKEASKQADVNLVNAK LLVKEAGLNVTTSHSPAAPGEQGFGECLLAVALAGAPYQAVGLVQGTTPLVQLNGAVFRPEVP LRRDLPLLLFRTQTSDPAMLPTMIGLLAEAGVRLLSYQTSLSVSDGETWHVMGISSLLPSLEAWKQ HVTEAFQFHF
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (94); Rat (94)
Isotype	IgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (84.37 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Tissue lysate)

PHGDH monoclonal antibody (M01), clone 4A3-1D6. Western Blot analysis of PHGDH expression in human liver.

[Protocol Download](#)

- Western Blot (Cell lysate)

PHGDH monoclonal antibody (M01), clone 4A3-1D6 Western Blot analysis of PHGDH expression in Jurkat (Cat # L017V1).

[Protocol Download](#)

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[Protocol Download](#)

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Lane 1: PHGDH transfected lysate(56.7 KDa).

Lane 2: Non-transfected lysate.

[Protocol Download](#)

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[Protocol Download](#)

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

[Protocol Download](#)

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

[Protocol Download](#)

- Immunoprecipitation

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

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged PHGDH is 1 ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to PHGDH on HeLa cell. [antibody concentration 1 ~ 10 ug/ml]

Gene Info — PHGDH

Entrez GeneID [26227](#)

GeneBank Accession# [BC011262](#)

Protein Accession# [AAH11262.1](#)

Gene Name PHGDH

Gene Alias 3-PGDH, 3PGDH, MGC3017, PDG, PGAD, PGD, PGDH, SERA

Gene Description phosphoglycerate dehydrogenase

Omim ID [601815 606879](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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.[supplied by OMIM]

Other Designations 3-phosphoglycerate dehydrogenase|OTTHUMP00000013926

Publication Reference

- [Enhanced serine production by bone metastatic breast cancer cells stimulates osteoclastogenesis.](#)

Pollari S, Kakonen SM, Edgren H, Wolf M, Kohonen P, Sara H, Guise T, Nees M, Kallioniemi O.

Breast Cancer Research and Treatment 2011 Jan; 125(2):421.

Application: WB-Ce, Human, MDA-MB-231 cells

Pathway

- [Glycine](#)
- [Metabolic pathways](#)

Disease

- [Genetic Predisposition to Disease](#)
- [Kidney Failure](#)
- [Schizophrenia](#)