

Datasheet

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

Catalog Number: H00026227-M01

Regulatory Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a full length recombinant PHGDH.

Clone Name: 4A3-1D6

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:

MAFANLRKVLISDSLDPCCRKILQDGGQLQVVEKQNLSE
EELIAELQDCEGLIVRSATKVTADVINAEEKLQVVGRAG
TGVNDVDLEAATRKGILVMNTPNGNSLSAAELTCGMI
MCLARQIPQATASMKDGKWERKKFMGTENGLKTLGIL
GLGRIGREVATRMQSFQGMKTIGYDPIISPEVSASFGVQ
QLPLEEIWPLCDFITVHTPLLPSTTGLLNDNTFAQCKKG
VRVVNCARGGIVDEGALLRALQSGQCAGAALDVFTEE
PPRDRALVDHENVISCPHLGASTKEAQSRCGEEIAVQ
FVDMVKGKSLTGVVNAQALTSFSPHTKPWIGLAEAL
GTLMRAWAGSPKGTIQVITQGTSLKNAGNCLSPAVIVG
LLKEASKQADVNLVNAKLLVKEAGLNVTTSHPAAPGE
QGFGECLLAVALAGAPYQAVGLVQGTTPVLQGLNGAV
FRPEVPLRRDLPLLLFRTQTS DPAMLPTMIGLLAEAGV
RLLSYQTSLSVSDGETWHVMGISSLLPSLEAWKQHVTE
AFQFHF

Host: Mouse

Reactivity: Human

Applications: ELISA, IF, IHC-P, IP, S-ELISA, WB-Ce,
WB-Re, WB-Ti, WB-Tr

(See our web site product page for detailed applications information)

Protocols: See our web site at
<http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG1 kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 26227

Gene Symbol: PHGDH

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

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]

References:

1. 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 Res Treat. 2010 Mar 30. [Epub ahead of print]