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PHGDH Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant PHGDH.
Catalog # AT3299a

Specification

PHGDH Antibody (monoclonal) (M01) - Product Information

Application	**IF, IP, WB, IHC**
Primary Accession	O43175
Other Accession	BC011262
Reactivity	**Human**
Host	**Mouse**
Clonality	**Monoclonal**
Isotype	**IgG1 kappa**
Calculated MW	**56651**

PHGDH Antibody (monoclonal) (M01) - Additional Information

Gene ID 26227

Other Names
D-3-phosphoglycerate dehydrogenase, 3-PGDH, PHGDH, PGDH3

Target/Specificity
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.

Dilution
WB~~1:500~1000

Format
Clear, colorless solution in phosphate buffered saline, pH 7.2 .

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

Precautions
PHGDH Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

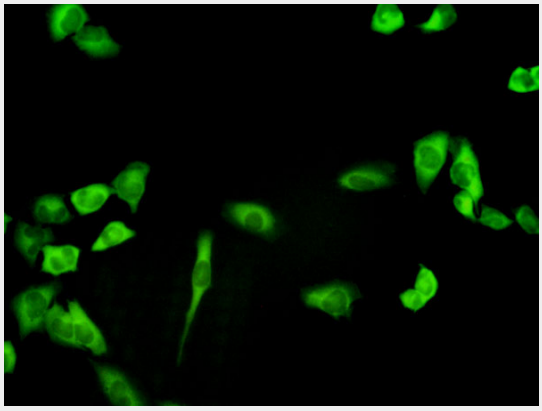
PHGDH Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

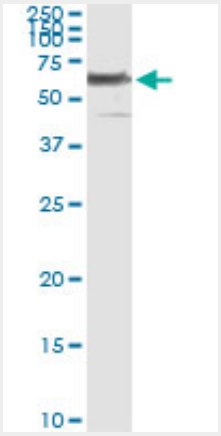
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

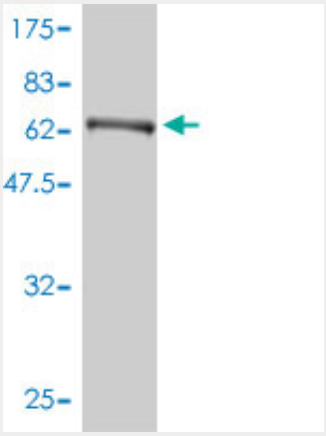
PHGDH Antibody (monoclonal) (M01) - Images



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



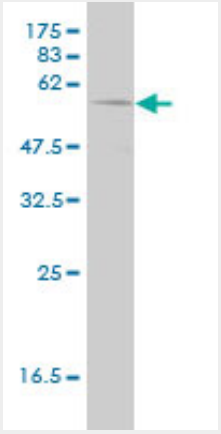
Immunoprecipitation of PHGDH transfected lysate using anti-PHGDH monoclonal antibody and Protein A Magnetic Bead (U0007), and immunoblotted with PHGDH MaxPab rabbit polyclonal antibody.



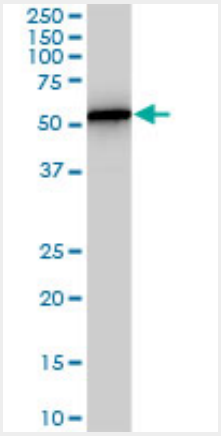
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen

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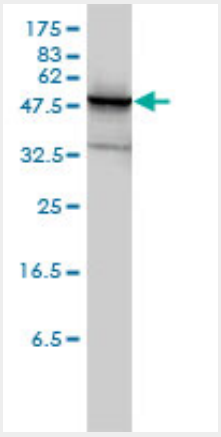
(84.37 KDa) .



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

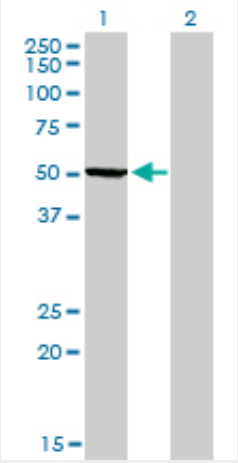


PHGDH monoclonal antibody (M01), clone 4A3-1D6. Western Blot analysis of PHGDH expression in A-431 ((Cat # AT3299a)



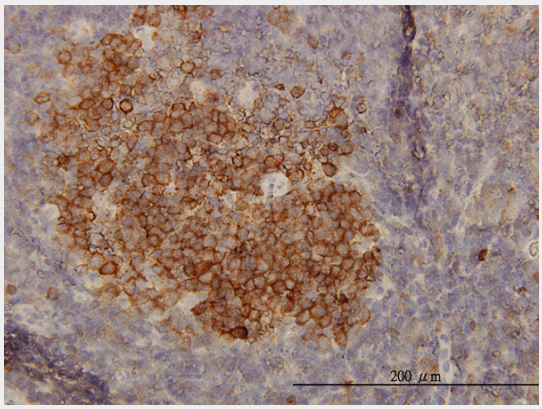
PHGDH monoclonal antibody (M01), clone 4A3-1D6 Western Blot analysis of PHGDH expression in Jurkat ((Cat # AT3299a)

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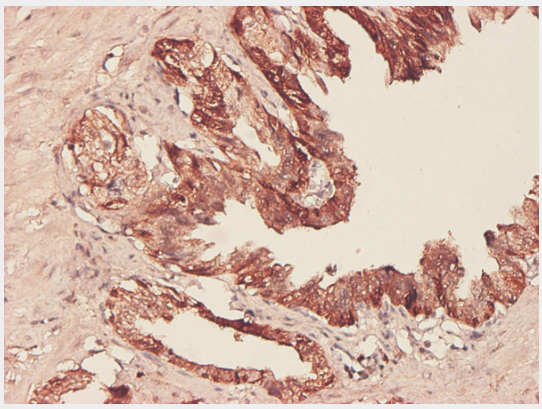


Western Blot analysis of PHGDH expression in transfected 293T cell line by PHGDH monoclonal antibody (M01), clone 4A3-1D6.

Lane 1: PHGDH transfected lysate(56.7 KDa).
Lane 2: Non-transfected lysate.



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



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

PHGDH Antibody (monoclonal) (M01) - Background

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.

PHGDH Antibody (monoclonal) (M01) - 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]