

GAPDS Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant GAPDS.

Catalog # AT2153a

Specification

GAPDS Antibody (monoclonal) (M01) - Product Information

Application	WB, IHC, E
Primary Accession	O14556
Other Accession	BC036373
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 kappa
Calculated MW	44501

GAPDS Antibody (monoclonal) (M01) - Additional Information

Gene ID 26330

Other NamesGlyceraldehyde-3-phosphate dehydrogenase, testis-specific, Spermatogenic cell-specific
glyceraldehyde 3-phosphate dehydrogenase 2, GAPDH-2, Spermatogenic
glyceraldehyde-3-phosphate dehydrogenase, GAPDHS, GAPD2, GAPDH2, GAPDS**Target/Specificity**

GAPDS (AAH36373, 1 a.a. ~ 408 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

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

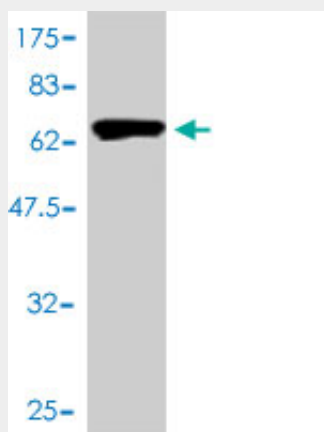
GAPDS Antibody (monoclonal) (M01) - Protocols

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

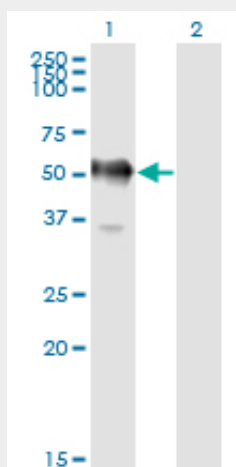
- [Western Blot](#)
- [Blocking Peptides](#)

- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GAPDS Antibody (monoclonal) (M01) - Images



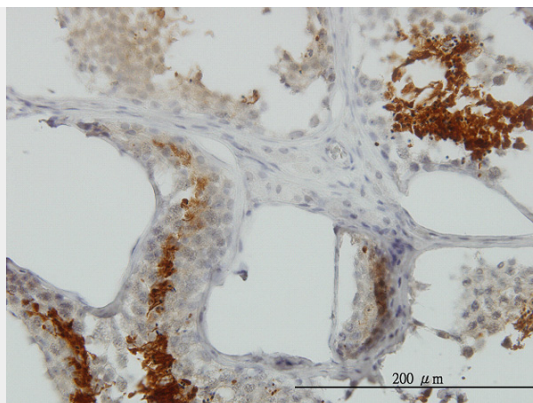
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (70.62 KDa) .



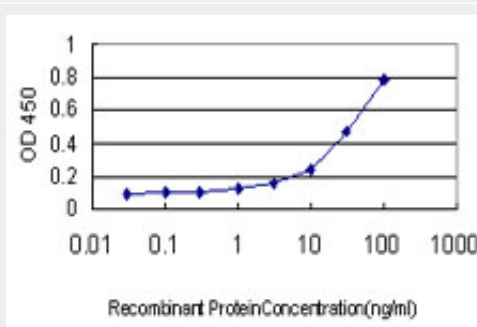
Western Blot analysis of GAPDHS expression in transfected 293T cell line by GAPDS monoclonal antibody (M01), clone 2E3-2E10.

Lane 1: GAPDHS transfected lysate(44.5 KDa).

Lane 2: Non-transfected lysate.



Immunoperoxidase of monoclonal antibody to GAPDHS on formalin-fixed paraffin-embedded human testis. [antibody concentration 1.5 ug/ml]



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

GAPDS Antibody (monoclonal) (M01) - Background

This gene encodes a protein belonging to the glyceraldehyde-3-phosphate dehydrogenase family of enzymes that play an important role in carbohydrate metabolism. Like its somatic cell counterpart, this sperm-specific enzyme functions in a nicotinamide adenine dinucleotide-dependent manner to remove hydrogen and add phosphate to glyceraldehyde 3-phosphate to form 1,3-diphosphoglycerate. During spermiogenesis, this enzyme may play an important role in regulating the switch between different energy-producing pathways, and it is required for sperm motility and male fertility.

GAPDS Antibody (monoclonal) (M01) - References

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2. Inhibition of microRNA-302 (miR-302) by bone morphogenetic protein 4 (BMP4) facilitates the BMP signaling pathway. Kang H, Louie J, Weisman A, Sheu-Gruttaduria J, Davis-Dusenbery BN, Lagna G, Hata A. *J Biol Chem*. 2012 Sep 17. [Epub ahead of print]
3. Isolation of antibodies against different protein conformations using immunoaffinity chromatography. Kuravsky ML, Schmalhausen EV, Pozdnyakova NV, Muronetz VI. *Anal Biochem*. 2012 Apr 3. [Epub ahead of print]
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6. The amiloride derivative phenamil attenuates pulmonary vascular remodeling by activating NFAT and the BMP signaling pathway. Chan MC, Weisman AS, Kang H, Nguyen PH,

Hickman T, Mecker SV, Hill NS, Lagna G, Hata A. Mol Cell Biol. 2010 Dec 6. [Epub ahead of print]7. Smad proteins bind a conserved RNA sequence to promote microRNA maturation by Drosha. Davis BN, Hilyard AC, Nguyen PH, Lagna G, Hata A. Mol Cell. 2010 Aug 13;39(3):373-84. 8. Molecular basis for antagonism between PDGF and the TGFbeta family of signalling pathways by control of miR-24 expression. Chan MC, Hilyard AC, Wu C, Davis BN, Hill NS, Lal A, Lieberman J, Lagna G, Hata A. EMBO J. 2010 Feb 3;29(3):559-73. Epub 2009 Dec 17. 9. Induction of microRNA-221 by platelet-derived growth factor signaling is critical for modulation of vascular smooth muscle phenotype. Davis BN, Hilyard AC, Nguyen PN, Lagna G, Hata A. J Biol Chem. 2009 Feb 6;284(6):3728-38. Epub 2008 Dec 15. 10. SMAD proteins control DROSHA-mediated microRNA maturation. Davis BN, Hilyard AC, Lagna G, Hata A. Nature. 2008 Jul 3;454(7200):56-61. Epub 2008 Jun 11. 11. Investigation of glyceraldehyde-3-phosphate dehydrogenase from human sperms. Shchutskaya YY, Elkina YL, Kuravsky ML, Bragina EE, Schmalhausen EV. Biochemistry (Mosc). 2008 Feb;73(2):185-91.