

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 Names**

Glyceraldehyde-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

IHC~~1:100~500

E~~N/A

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

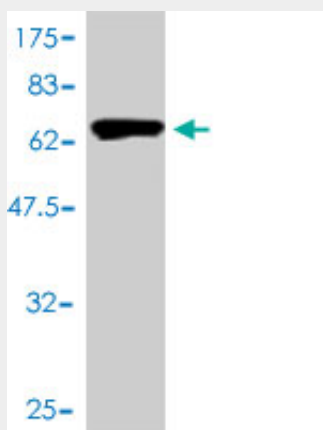
GAPDS Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

GAPDS Antibody (monoclonal) (M01) - Protocols

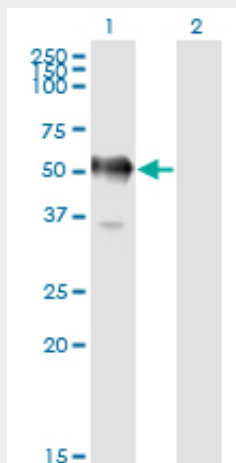
Provided below are standard protocols that you may find useful for product applications.

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

GAPDS Antibody (monoclonal) (M01) - Images



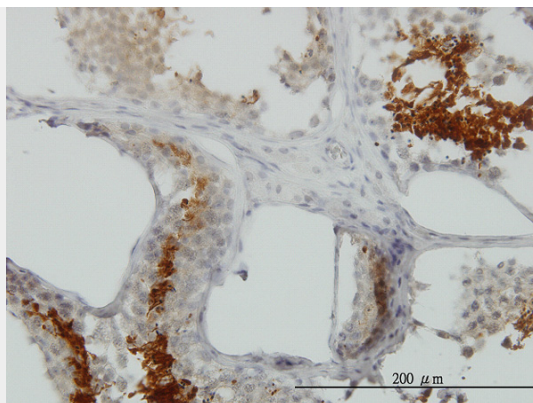
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (70.62 KDa) .



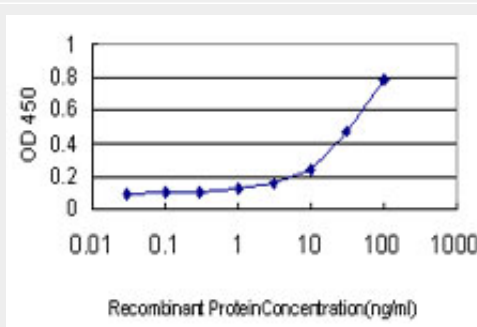
Western Blot analysis of GAPDHS expression in transfected 293T cell line by GAPDS monoclonal antibody (M01), clone 2E3-2E10.

Lane 1: GAPDHS transfected lysate(44.5 KDa).

Lane 2: Non-transfected lysate.



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



Detection limit for recombinant GST tagged GAPDH 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-Gruttadauria 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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