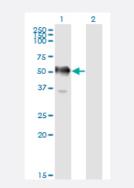
GAPDS monoclonal antibody (M01), clone 2E3-2E10

Catalog # H00026330-M01 Size 100 ug

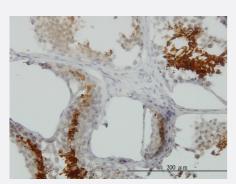
Applications



Western Blot (Transfected lysate)

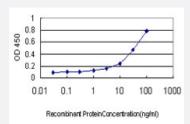
Western Blot analysis of GAPDHS expression in transfected 293T cell line by GAPDS monoclonal antibody (M01), clone 2E3-2E10.

Lane 1: GAPDHS transfected lysate(44.5 KDa). Lane 2: Non-transfected lysate.



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections)

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

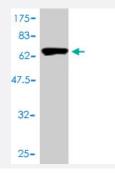


Sandwich ELISA (Recombinant protein)

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

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Product Information



Western Blot detection against Immunogen (70.62 KDa).

Specification	
Product Description	Mouse monoclonal antibody raised against a full length recombinant GAPDS.
Immunogen	GAPDS (AAH36373, 1 a.a. ~ 408 a.a) full-length recombinant protein with GST tag. MW of the GST t ag alone is 26 KDa.
Sequence	MSKRDIVLTNVTVVQLLRQPCPVTRAPPPPEPKAEVEPQPQPEPTPVREEIKPPPPPLPPHPATP PPKMVSVARELTVGINGFGRIGRLVLRACMEKGVKVVAVNDPFIDPEYMVYMFKYDSTHGRYKGS VEFRNGQLVVDNHEISVYQCKEPKQIPWRAVGSPYVVESTGVYLSIQAASDHISAGAQRVVISAPS PDAPMFVMGVNENDYNPGSMNIVSNASCTTNCLAPLAKVIHERFGIVEGLMTTVHSYTATQKTVD GPSRKAWRDGRGAHQNIIPASTGAAKAVTKVIPELKGKLTGMAFRVPTPDVSVVDLTCRLAQPAP YSAIKEAVKAAAKGPMAGILAYTEDEVVSTDFLGDTHSSIFDAKAGIALNDNFVKLISWYDNEYGYS HRVVDLLRYMFSRDK
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (76); Rat (78)
lsotype	lgG1 kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (70.62 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

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Product Information

Western Blot (Transfected lysate)

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.

Protocol Download

• Western Blot (Recombinant protein)

Protocol Download

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

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

Protocol Download

Sandwich ELISA (Recombinant protein)

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

Protocol Download

ELISA

Gene Info — GAPDHS

Entrez GenelD	26330
GeneBank Accession#	<u>BC036373</u>
Protein Accession#	<u>AAH36373</u>
Gene Name	GAPDHS
Gene Alias	GAPD2, GAPDH-2, GAPDS, HSD-35
Gene Description	glyceraldehyde-3-phosphate dehydrogenase, spermatogenic
Omim ID	<u>609169</u>
Gene Ontology	Hyperlink



Product Information

Gene SummaryThis 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 counterp
art, this sperm-specific enzyme functions in a nicotinamide adenine dinucleotide-dependent mann
er to remove hydrogen and add phosphate to glyceraldehyde 3-phosphate to form 1,3-diphospho
glycerate. 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 fertilit
y. [provided by RefSeqOther Designationsglyceraldehyde-3-phosphate dehydrogenase, testis-specific|spermatogenic cell-specific glyceral
dehyde 3-phosphate dehydrogenase 2

Publication Reference

 <u>Down-Regulation of miR-96 by Bone Morphogenetic Protein Signaling is Critical for Vascular Smooth Muscle</u> <u>Cell Phenotype Modulation.</u>

Kim S, Hata A, Kang H.

Journal of Cellular Biochemistry 2014 May; 115(5):889.

Application: IHC, WB, Human, Gastric tissue, MKN28, MKN45, AGS, N87, SNU 1, SNU 16, KATO cells

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.

The Journal of Biological Chemistry 2012 Nov; 287(46):38656.

Application: WB-Ce, WB-Tr, Human, PASMCs

• Isolation of antibodies against different protein conformations using immunoaffinity chromatography.

Kuravsky ML, Schmalhausen EV, Pozdnyakova NV, Muronetz VI.

Analytical Biochemistry 2012 Jul; 426(1):47.

Application: WB, Human, Human sperm lysate

 Bone morphogenetic protein 4 promotes vascular smooth muscle contractility by activating microRNA-21 (miR-21), which down-regulates expression of family of dedicator of cytokinesis (DOCK) proteins.

Kang H, Davis-Dusenbery BN, Nguyen PH, Lal A, Lieberman J, Van Aelst L, Lagna G, Hata A.

The Journal of Biological Chemistry 2012 Feb; 287(6):3976.

Application: WB-Tr, Human, Human primary pulmonary artery smooth muscle cells

Down-regulation of KLF4 by MIR-143/145 is critical for modulation of vascular smooth muscle cell phenotype by TGF-{beta} and BMP.

Davis-Dusenbery BN, Chan MC, Reno KE, Weisman AS, Layne MD, Lagna G, Hata A.

The Journal of Biological Chemistry 2011 Aug; 286(32):28097.

Application: WB-Ce, WB-Tr, Human, PASMCs



Product Information

<u>The amiloride derivative phenamil attenuates pulmonary vascular remodeling by activating NFAT and the BMP signaling pathway.</u>

Chan MC, Weisman AS, Kang H, Nguyen PH, Hickman T, Mecker SV, Hill NS, Lagna G, Hata A. Molecular and Cellular Biology 2011 Feb; 31(3):517.

Application: WB, Human, PASMCs

 <u>Recombinant human sperm-specific glyceraldehyde-3-phosphate dehydrogenase: Structural basis for</u> <u>enhanced stability.</u>

Elkina YL, Kuravsky ML, El'darov MA, Stogov SV, Muronetz VI, Schmalhausen EV. Biochimica et Biophysica Acta 2010 Dec; 1804(12):2207.

Application: WB, E. coli, Recombinant protein, Rosetta 2(DE3)/pET21/dGAPDS cells

• Smad proteins bind a conserved RNA sequence to promote microRNA maturation by Drosha.

Davis BN, Hilyard AC, Nguyen PH, Lagna G, Hata A. Molecular Cell 2010 Aug; 39(3):373.

Application: WB-Tr, Human, Human primary pulmonary smooth muscle cells

 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. The EMBO Journal 2010 Feb; 29(3):559.

Application: WB-Ce, WB-Tr, Human, Human primary pulmonary smooth-muscle cells

 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. The Journal of Biological Chemistry 2008 Dec; 284(6):3728.

Application: WB, Human, Human primary pulmonary artery smooth muscle cells

SMAD proteins control DROSHA-mediated microRNA maturation.

Davis BN, Hilyard AC, Lagna G, Hata A. Nature 2008 Jun; 454(7200):56.

Application: WB-Tr, Human, 10T1/2 cells, COS-7, Human primary pulmonary artery smooth muscle cells

Investigation of glyceraldehyde-3-phosphate dehydrogenase from human sperms.

Shchutskaya YY, Elkina YL, Kuravsky ML, Bragina EE, Schmalhausen EV. Biochemistry. Biokhimiia 2008 Feb; 73(2):185.

Application: WB-Ti, Human, Human sperm



Disease

- <u>Alzheimer disease</u>
- Genetic Predisposition to Disease