

## Datasheet

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

**Catalog Number:** H00026330-M01

**Regulation Status:** For research use only (RUO)

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

**Clone Name:** 2E3-2E10

**Immunogen:** GAPDS (AAH36373, 1 a.a. ~ 408 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

**Sequence:**

MSKRDIVLTNVTVVQLLRQPCPVTRAPPPPEPKAEVEP  
QPQPEPTPVREEIKPPPPPLPPHPATPPPKMVSVAEL  
TVGINGFGRIGRLVLRACMEKGVKVVAVNDPFIDPEYM  
VYMFKYDSTHGRYKGSVEFRNGQLVVDNHEISVYQC  
KEPKQIPWRAVGSPYVVESTGVYLSIQAASDHISAGAQ  
RVVISAPSPDAPMFVMGVNENDYNPGSMNIVSNASCT  
TNCLAPLAKVIHERFGIVEGLMTTVHSYTATQKTVDGP  
SRKAWRDGRGAHQNIIPASTGAAKAVTKVIPELKGKLT  
GMAFRVPTPDVSVVDLTCRLAQAPYSAIKEAVKAAA  
KGPMAGILAYTEDEVSTDFLGDTHSSIFDAKAGIALN  
DNFVKLISWYDNEYGYSHRVVDLLRYMFSRDK

**Host:** Mouse

**Reactivity:** Human

**Applications:** ELISA, IHC-P, S-ELISA, WB-Re, 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:** 26330

**Gene Symbol:** GAPDHS

**Gene Alias:** GAPD2, GAPDH-2, GAPDS, HSD-35

**Gene Summary:** 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. [provided by RefSeq]

**References:**

1. 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]
2. 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]
3. Bone morphogenetic protein 4 promotes vascular smooth muscle contractility by activating miR-21, which downregulates expression of the 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. J Biol Chem. 2011 Dec 9.