



# Anti-GAPDH monoclonal antibody, clone 7D7 (DMAB3421MH)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Monoclonal Antibody to GAPDH
<b>Antigen Description</b>	Has both glyceraldehyde-3-phosphate dehydrogenase and nitrosylase activities, thereby playing a role in glycolysis and nuclear functions, respectively. Participates in nuclear events including transcription, RNA transport, DNA replication and apoptosis. Nuclear functions are probably due to the nitrosylase activity that mediates cysteine S-nitrosylation of nuclear target proteins such as SIRT1, HDAC2 and PRKDC (By similarity). Glyceraldehyde-3-phosphate dehydrogenase is a key enzyme in glycolysis that catalyzes the first step of the pathway by converting D-glyceraldehyde 3-phosphate (G3P) into 3-phospho-D-glyceroyl phosphate.
<b>Specificity</b>	Recognizes GAPDH monomer (36kDa) and the dimer form. Does not react with the tetrameric form. Reacts with GAPDH from fish, frog, chicken, rabbit, pig, dog, cat, rat, mouse and human skeletal muscle. Does not react with GAPDH from yeast, bovine and goat.
<b>Immunogen</b>	Purified rabbit muscle GAPDH (whole molecule)
<b>Isotype</b>	IgG1
<b>Source/Host</b>	Mouse
<b>Species Reactivity</b>	Rabbit
<b>Clone</b>	7D7
<b>Purification</b>	90% pure (SDS-PAGE). Protein A chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	ELISA, IFA, WB, IHC We recommend the following for sandwich ELISA (Capture - Detection):

DMAB3421MH - DMAB1692MR

<b>Format</b>	Purified,Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	1 mg
<b>Buffer</b>	PBS,pH 7.4
<b>Preservative</b>	0.09% Sodium Azide
<b>Storage</b>	Store at 2–8°C.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">GAPDH glyceraldehyde-3-phosphatedehydrogenase [ Oryctolagus cuniculus ]</a>
<b>Official Symbol</b>	GAPDH
<b>Synonyms</b>	glyceraldehyde-3-phosphate dehydrogenase; GAPDH; peptidyl-cysteine S-nitrosylase GAPDH; muscle GAPDH
<b>Entrez Gene ID</b>	<a href="#">100009074</a>
<b>Protein Refseq</b>	<a href="#">NP_001075722</a>
<b>UniProt ID</b>	<a href="#">P46406</a>