



# GAPDH Monoclonal antibody

For Research Use Only

## · Basic Information

<b>Catalog Number:</b>	<b>GenBank Accession</b>	<b>Purification Method:</b>
U12003	<b>Number:</b>	Protein A purification
<b>Size:</b>	BC004109	<b>CloneNo.:</b>
300 µg/ml	<b>GeneID (NCBI):</b>	1E6D9
<b>Source:</b>	2597	<b>Recommended Dilutions:</b>
Mouse	<b>Full Name:</b>	WB 1:10000-1:100000
<b>Isotype:</b>	glyceraldehyde-3-phosphate	IF 1:50-1:500
IgG2b	dehydrogenase	
<b>Immunogen Catalog Number:</b>	<b>Calculated MW:</b>	
AG0766	36 kDa	
	<b>Observed MW:</b>	
	36 kDa	

## · Applications

### Tested Applications:

FC, IF, WB, ELISA

### Species Specificity:

human, mouse, rat, yeast, plant, zebrafish

### Positive Controls:

**WB :** HeLa cells, HepG2 cells, ROS1728 cells, pig brain tissue, zebrafish tissue, whole yeast, whole Nematode tissue, soybean whole plant tissue, arabidopsis whole plant tissue, HEK-293 cells, Jurkat cells, K-562 cells, HSC-T6 cells, NIH/3T3 cells, 4T1 cells, C6 cells, PC-12 cells, C2C12 cells, SP2/0 cells, rat brain tissue, mouse brain tissue

**IF :** Ethacrynic acid treated HeLa cells



## · Background Information

Glyceraldehyde-3-phosphate dehydrogenase (GAPDH) catalyzes the phosphorylation of glyceraldehyde-3-phosphate during glycolysis. GAPDH participates in nuclear events including transcription, binding RNA, RNA transportation, DNA replication, DNA repair and apoptosis. Being stably and constitutively expressed at high levels in most tissues and cells, GAPDH is considered a housekeeping protein. It is widely used as a control for RT-PCR and also loading control in electrophoresis and Western blotting. GAPDH is normally expressed in cellular cytoplasm or membrane, but can occasionally translocate to the nucleus after the addition of post-translational modifications such as S-nitrosylation. This antibody is raised against full length GAPDH of human origin. It can recognize the 36 kDa GAPDH protein in most cells/tissues. In addition, a band below 36 kDa can always be detected as the isoform or spliced product of GAPDH (PMID: 23885286, 23877755, 19368702). Please note that some physiological factors, such as hypoxia and diabetes, increase GAPDH expression in certain cell types. For murine tissue samples, conjugated mouse antibody HRP-60004 and rabbit antibody 10494-1-AP are preferable.

## · Storage

### Storage:

Store at -20°C. Stable for one year after shipment.

### Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20° C storage