

<b>Cat. No:</b>	MAB-10578
<b>Conjugate:</b>	Unconjugated
<b>Size:</b>	100 ug
<b>Clone:</b>	6C5
<b>Concentration:</b>	1mg/ml
<b>Host:</b>	Ms
<b>Isotype:</b>	IgG1
<b>Immunogen:</b>	Recombinant protein of human GAPDH
<b>Reactivity:</b>	Hu, Ms, Rt
<b>Applications:</b>	Western Blot: 1:5,000-1:20,000 Immunofluorescence 1:200 Immunocytochemistry: 1:100-500
<b>Molecular Weight:</b>	36kDa
<b>Purification:</b>	Aff. Pur.

**Background:**

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 was 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 post modification such as S-nitrosylation. This antibody is a mouse monoclonal antibody raised against full length GAPDH of human origin. It can recognize the 36kda GAPDH protein in most cells/tissues. Please note that some physiological factors, such as hypoxia and diabetes, increase GAPDH expression in certain cell types.

<b>Form:</b>	Liquid
<b>Buffer:</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Storage:</b>	Store at -20°C. Avoid freeze / thaw cycles.

**For Research use only  
IMMUNOLOGICAL SCIENCES**