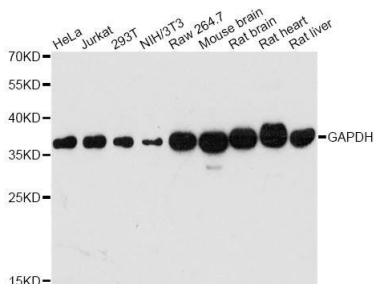


<b>Cat. No:</b>	MAB-10578
<b>Conjugate:</b>	Unconjugated
<b>Size:</b>	100 ug
<b>Clone:</b>	6C5
<b>Concentration:</b>	1mg/ml
<b>Host:</b>	Ms
<b>Isotype:</b>	IgG1
<b>Immunogen:</b>	Recombinant protein of human GAPDH
<b>Reactivity:</b>	Hu, Ms, Rt
<b>Applications:</b>	Western Blot: 1:5,000-1:20,000 Immunofluorescence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

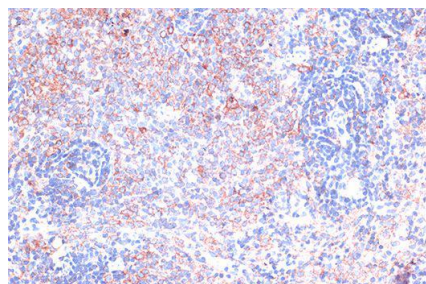
**Background:**

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 translocated 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.

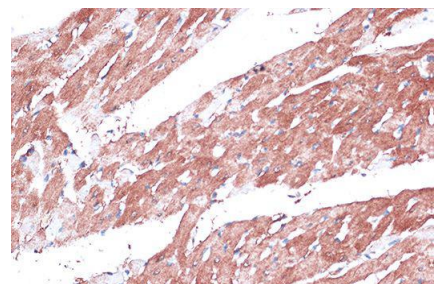
<b>Form:</b>	Liquid
<b>Buffer:</b>	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
<b>Storage:</b>	Store at -20°C. Avoid freeze / thaw cycles.



Western blot analysis of extracts of various cell lines, using GAPDH antibody at 1:10,000 dilution.  
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10,000 dilution.



Immunohistochemistry of paraffin-embedded rat spleen using GAPDH antibody at dilution of 1:100

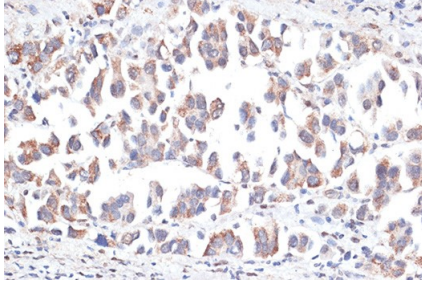


Immunohistochemistry of paraffin-embedded rat heart using GAPDH 1:100

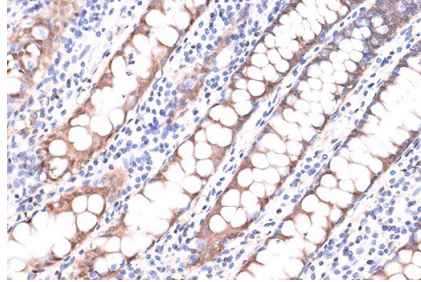
Lysates/proteins: 25ug per lane.  
Blocking buffer: 3% nonfat dry milk in  
TBST.

Detection: ECL Basic Kit

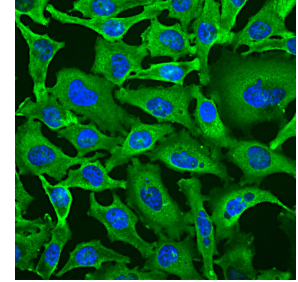
Exposure time:60s



Immunohistochemistry of paraffin-embedded human lung cancer using GAPDH antibody of 1:100



Immunohistochemistry of paraffin-embedded human colon using GAPDH antibody at dilution of 1:100



Immunohistochemistry of paraffin-embedded mouse spinal cord using GAPDH antibody at dilution of 1:100

**Immunofluorescent analysis of of HeLa cells stained with mouse mAb to GAPDH,dilution 1:100 in green Blue: DAPI for The antibody produces strong cytoplasmic staining of healthy cells nuclear staining**