

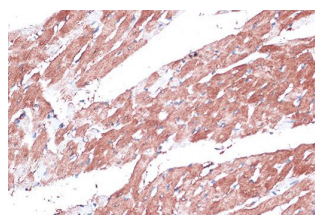
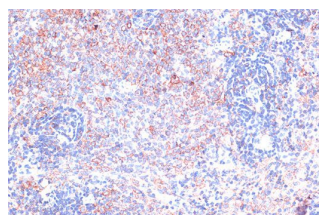
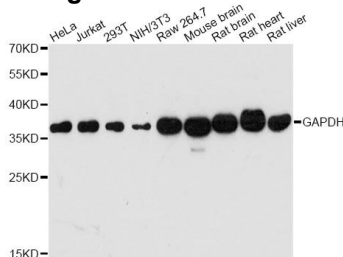


MAB-10578 GAPDH Monoclonal Antibody

Size:	100 ug
Clone:	6C5
Source:	Mouse
Isotype:	IgG
Purity:	Affinity purification
Cross-Reactivity:	Human, Mouse, Rat, Other (Wide Range)
Calculated MW:	36kDa
Immunogen:	Recombinant protein of human GAPDH

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.

Applications:	Western Blot: 1:5,000-1:50,000 Immunofluorescence 1:200 Immunocytochemistry: 1:50-200 Immunohistochemistry (paraffin embedded tissues): 1:50-200
Cellular location:	Cytoplasm, Membrane, Nucleus, cytoskeleton, cytosol, perinuclear region
Buffer:	PBS with 0.02% sodium azide, 50% glycerol, pH7.3.
Storage/Stability:	Shipment at: 2-8°C
Storage:	Store at -20°C. Avoid freeze / thaw cycles.



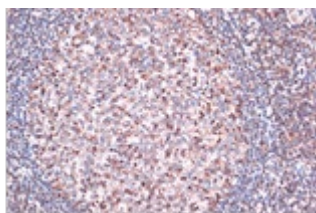
Western blot analysis of extracts of various cell lines, using GAPDH antibody at 1:10,000 dilution.
Secondary antibody: HRP Goat Anti-Mouse IgG (H+L) at 1:10,000 dilution.
Lysates/proteins: 25ug per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit
Exposure time: 60s

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

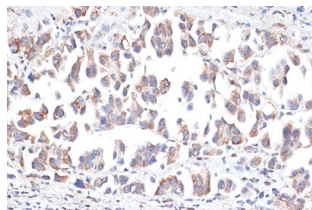
Immunohistochemistry of paraffin-embedded rat heart using GAPDH 1:100

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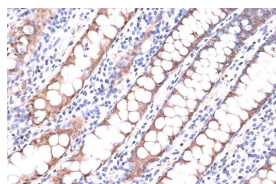
Web-site: www.immunologicalsciences.com - E-Mail: info@immunologicalsciences.com



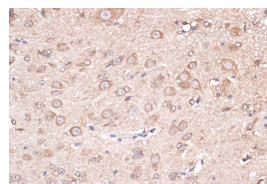
Immunohistochemistry of paraffin-embedded human tonsil using GAPDH antibody at dilution of 1:100



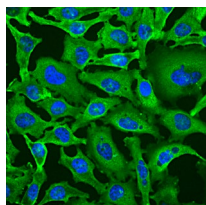
Immunohistochemistry of paraffin-embedded human lung cancer using GAPDH antibody of 1:100



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 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