

32-5975: Mouse Anti Human Glyceraldehyde-3-Phosphate Dehydrogenase(Clone: PAT8G4AT.)

Clonality :	Monoclonal
Clone Name :	PAT8G4AT.
Application :	ELISA, WB, FACS
Gene :	GAPDH
Gene ID :	2597
Uniprot ID :	P04406
Format :	Purified
Alternative Name :	G3PD, GAPD, MGC88685, GAPDH, Glyceraldehyde-3-Phosphate Dehydrogenase.
Isotype :	Mouse IgG2b heavy chain and ? light chain.
Immunogen Information :	Anti-human GAPDH mAb, is derived from hybridization of mouse F0 myeloma cells with spleen cells from BALB/c mice immunized with recombinant human GAPDH amino acids 1-335 purified from E. coli.

Description

GAPDH is a catalytic enzyme normally known to play a role in glycolysis. GAPDH exists as a tetramer composed of 36-kDa subunits and has a range of intracellular functions. GAPDH catalyzes the reversible reduction of 1,3-bisphosphoglycerate to glyceraldehyde 3-phosphophate in the presence of NADPH. Besides functioning as a glycolytic enzyme in cytoplasm, GAPDH has function in intracellular processes such as membrane fusion, microtubule bundling, phosphotransferase activity, nuclear RNA export, DNA replication and DNA repair. GAPDH catalyzes a vital energy-yielding step in carbohydrate metabolism, the reversible oxidative phosphorylation of glyceraldehyde-3-phosphate in the presence of inorganic phosphate and nicotinamide adenine dinucleotide (NAD). The enzyme exists as a tetramer of identical chains.

Product Info

Amount :	20 µg
Purification :	GAPDH antibody was purified from mouse ascitic fluids by protein-G affinity chromatography.
Content :	1mg/ml containing PBS, pH-7.4, & 0.1% Sodium Azide.
Storage condition :	For periods up to 1 month store at 4°C, for longer periods of time, store at -20°C. Prevent freeze thaw cycles.

Application Note

GAPDH antibody has been tested by ELISA, Western blot and Immunofluorescence analysis to assure specificity and reactivity. Since application varies, however, each investigation should be titrated by the reagent to obtain optimal results. Recommended dilution range for Western blot analysis and Immunofluorescence is 1:500 ~ 10,000. Recommended starting dilution is 1:1,000.