# GAPDH(Human specific) mouse mAb

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| **Catalog No** | BYab-03452 |
| **Isotype** | IgG |
| **Reactivity** | Human;Monkey |
| **Applications** | WB |
| **Gene Name** | gapdh |
| **Protein Name** | |
| **Immunogen** | Purified recombinant human GAPDH protein fragments expressed in E.coli. |
| **Specificity** | This antibody detects endogenous levels of human GAPDH and does not cross-react with related proteins. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Monoclonal, Mouse |
| **Purification** | The antibody was affinity-purified from mouse ascites by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | wb 1:5000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | 38 kDa BFA-dependent ADP-ribosylation substrate;aging associated gene 9 protein;Aging-associated gene 9 protein;BARS-38;cb609;EC 1.2.1.12;G3P_HUMAN;G3PD;G3PDH;GAPD;GAPDH; GAPDH;Glyceraldehyde 3 phosphate dehydrogenase;Glyceraldehyde 3 phosphate dehydrogenase liver;Glyceraldehyde 3 phosphate dehydrogenase muscle;Glyceraldehyde-3-phosphate dehydrogenase;KNC-NDS6;MGC102544;MGC102546;MGC103190;MGC103191;MGC105239;MGC127711; MGC88685;OCAS, p38 component;OCT1 coactivator in S phase, 38-KD component;peptidyl cysteine S nitrosylase GAPDH;Peptidyl-cysteine S-nitrosylase GAPDH;wu:fb33a10. |
| **Observed Band** | 37kD |
| **Cell Pathway** | Cytoplasm, cytosol . Nucleus . Cytoplasm, perinuclear region . Membrane . Cytoplasm, cytoskeleton . Translocates to the nucleus following S-nitrosylation and interaction with SIAH1, which contains a nuclear localization signal (By similarity). Postnuclear and Perinuclear regions (PubMed:12829261). . |

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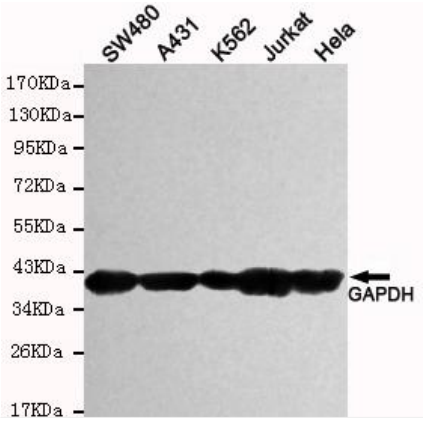
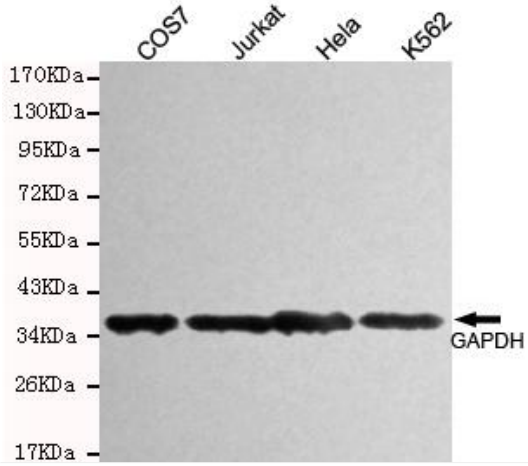
| **Tissue Specificity** | Astrocytoma,Brain,Cajal-Retzius cell,Colon adenocarcinoma,Epitheliu |
| **Function** | catalytic activity:D-glyceraldehyde 3-phosphate + phosphate + NAD(+) = 3-phospho-D-glyceroyl phosphate + NADH.,function:Independent of its glycolytic activity it is also involved in membrane trafficking in the early secretory pathway.,online information:Glyceraldehyde 3-phosphate dehydrogenase entry,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1.,pathway:Carbohydrate degradation; glycolysis; pyruvate from D-glyceraldehyde 3-phosphate: step 1/5.,PTM:Reversible S-nitrosylation of Cys-152 inhibits enzymatic activity and increases endogenous ADP-ribosylation, which inhibits the enzyme in a non-reversible manner. The latter modification is more likely to be a pathophysiological event associated with inhibition of gluconeogenesis.,sequence caution:Differs quite extensively.,similarity:Belongs to the glyceraldehyde-3-phosphate dehydrogenase fami |
| **Background** | glyceraldehyde-3-phosphate dehydrogenase(GAPDH) Homo sapiens This gene encodes a member of the glyceraldehyde-3-phosphate dehydrogenase protein family. The encoded protein has been identified as a moonlighting protein based on its ability to perform mechanistically distinct functions. The product of this gene catalyzes an important 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 encoded protein has additionally been identified to have uracil DNA glycosylase activity in the nucleus. Also, this protein contains a peptide that has antimicrobial activity against E. coli, P. aeruginosa, and C. albicans. Studies of a similar protein in mouse have assigned a variety of additional functions including nitrosylation of nuclear proteins, the regulation of mRNA stability, and acting as a transferri |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

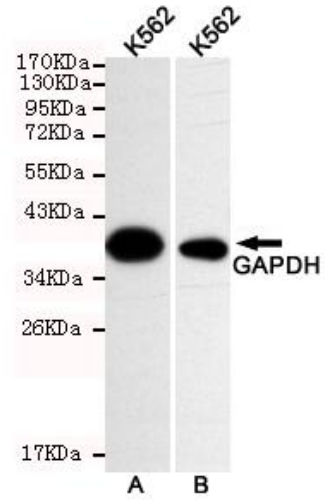
## Products Images




Western blot detection of GAPDH(human specific) in SW480,A431,K562,Jurkat and Hela cell lysates using GAPDH(human specific) mouse mAb (1:5000 diluted). Predicted band size:37KDa.Observed band size:37KDa.




Western blot detection of GAPDH(human specific) in Jurkat,COS7,K562 and Hela cell lysates using GAPDH(human specific) mouse mAb (1:3000 diluted).Predicted band size:37KDa.Observed band size:37KDa.




Western blot detection of GAPDH(human specific) stability in K562 cell lysate(A:Stored at room temperature for 72 hours;B:Stored at -20℃) using GAPDH(human specific) mouse mAb (1:10000 diluted).Predicted band size:37KDa.Observed band size:37KDa.