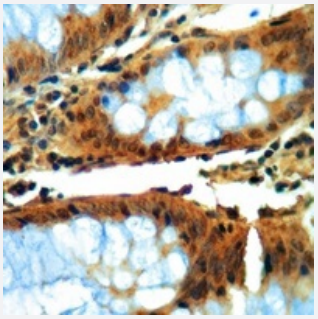
RecomAb™

GAPDH recombinant monoclonal antibody

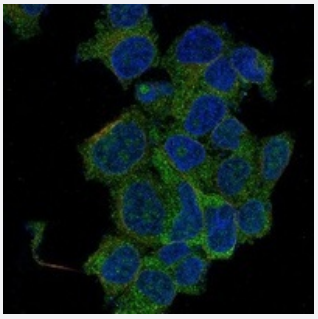
Catalog # RAB02503 Size 100 uL

Applications



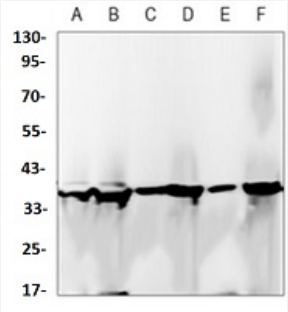
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical analysis of human colon cancer formalin fixed paraffin embedded tissue section using GAPDH recombinant monoclonal antibody (Cat # RAB02503). The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.59). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescence

Immunofluorescent analysis of HeLa cells with GAPDH recombinant monoclonal antibody (Cat # RAB02503). Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).



Western Blot

Western blot analysis of Raw264.7 (A), Hela (B), CHOK1 (C), C6 (D), rat brain (E), Jurkat (F) whole cell lysates with GAPDH recombinant monoclonal antibody (Cat # RAB02503).

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Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GAPDH.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against recombinant protein of human GAPDH.
Theoretical MW (kDa)	37
Reactivity	Hamster, Human, Mouse, Rat
Specificity	Recognizes endogenous levels of GAPDH protein.
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Immunogen affinity chromatography
Isotype	IgG
Recommend Usage	Immunocytochemistry (1:50-1:100) Immunofluorescence (1:50-1:100) Immunohistochemistry (1:50-1:100) Western Blot (1:500-1:1000) The optimal working dilution should be determined by the end user.
Storage Buffer	In 50mM Tris-Glycine, pH 7.4 (0.15M NaCl, 50% Glycerol, 0.01% Sodium azide and 0.05% BSA)
Storage Instruction	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze-thaw cycles.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

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- Immunofluorescence

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- Immunocytochemistry

- Immunoprecipitation

- Western Blot

  Western blot analysis of Raw264.7 (A), Hela (B), CHOK1 (C), C6 (D), rat brain (E), Jurkat (F) whole cell lysates with GAPDH recombinant monoclonal antibody (Cat # RAB02503).

Gene Info — GAPDH

Entrez GeneID	2597
Protein Accession#	P04406
Gene Name	GAPDH
Gene Alias	G3PD, GAPD, MGC88685
Gene Description	glyceraldehyde-3-phosphate dehydrogenase
Omim ID	138400
Gene Ontology	Hyperlink
Gene Summary	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 enzyme exists as a tetramer of identical chains. Many pseudogenes similar to this locus are present in the human genome. [provided by RefSeq
Other Designations	OTTHUMP00000174431|OTTHUMP00000174432|aging-associated gene 9 protein|glyceraldehyde 3-phosphate dehydrogenase

Pathway

- Biosynthesis of alkaloids derived from histidine and purine

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- Biosynthesis of alkaloids derived from ornithine
- Biosynthesis of alkaloids derived from shikimate pathway
- Biosynthesis of alkaloids derived from terpenoid and polyketide
- Biosynthesis of phenylpropanoids
- Biosynthesis of plant hormones
- Biosynthesis of terpenoids and steroids
- Glycolysis / Gluconeogenesis
- Metabolic pathways

Disease

- Alzheimer disease
- Cardiovascular Diseases
- Diabetes Complications
- Metabolic Syndrome X
- Neoplasms
- Nerve Degeneration
- Osteoporosis

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