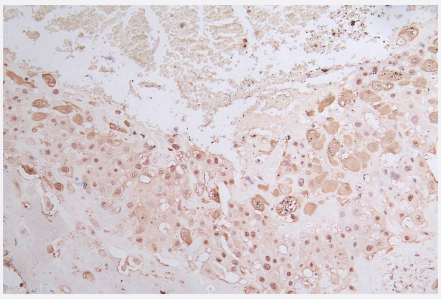
RecomAb™

GAPDH recombinant monoclonal antibody, clone 9B1

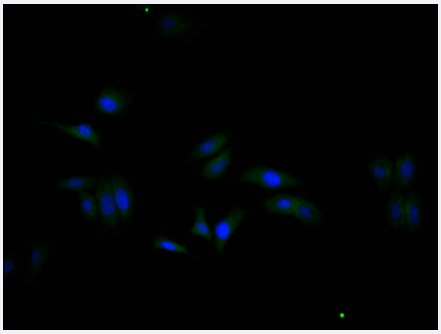
Catalog # RAB07794 Size 100 uL

Applications



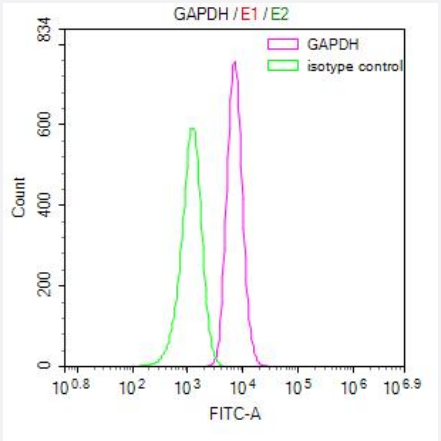
Immunohistochemistry

Immunohistochemistry image of GAPDH recombinant monoclonal antibody, clone 9B1 diluted at 1:50 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system.



Immunofluorescence

Immunofluorescence staining of HepG2 Cells with GAPDH recombinant monoclonal antibody, clone 9B1 at 1:20, counter-stained with DAPI.



Flow Cytometry

Overlay Peak curve showing Hela cells stained with GAPDH recombinant monoclonal antibody, clone 9B1 (red line) at 1:50.

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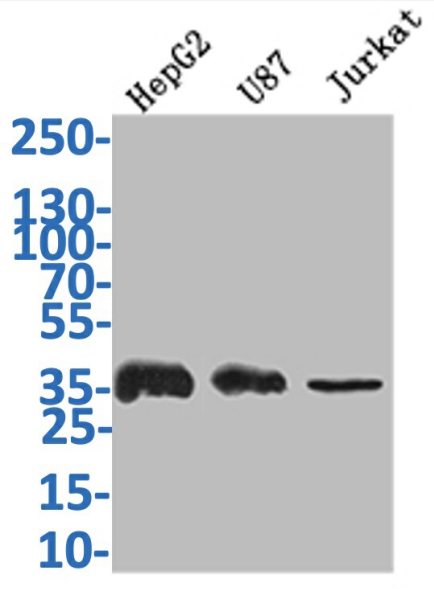

Western Blot

Western Blot analysis of Lane 1: HepG2 whole cell lysate; Lane 2: U87 whole tissue lysate; Lane 3: JK whole cell lysate.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GAPDH.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human GAPDH.
Theoretical MW (kDa)	Calculated MW: 36
Reactivity	Human
Form	Liquid
Preparation Method	Mammalian cell (HEK293) expression system
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry(1:50-1:200) Immunohistochemistry(1:50-1:200) Immunofluorescence(1:20-1:200) Western Blot(1:500-1:2000) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH7.4 (150 mM NaCl, 0.02% sodium azide and 50% glycerol)
Storage Instruction	Store at -20°C or -80°C. Aliquot to avoid repeated freezing and thawing.

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Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Immunohistochemistry

  Immunohistochemistry image of GAPDH recombinant monoclonal antibody, clone 9B1 diluted at 1:50 and staining in paraffin-embedded human placenta tissue performed on a Leica BondTM system.

- Immunofluorescence

  Immunofluorescence staining of HepG2 Cells with GAPDH recombinant monoclonal antibody, clone 9B1 at 1:20, counter-stained with DAPI.

- Flow Cytometry

  Overlay Peak curve showing Hela cells stained with GAPDH recombinant monoclonal antibody, clone 9B1 (red line) at 1:50.

- Enzyme-linked Immunoabsorbent Assay

- Western Blot

  Western Blot analysis of Lane 1: HepG2 whole cell lysate; Lane 2: U87 whole tissue lysate; Lane 3: JK whole cell lysate.

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 inorga nic 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. [provi ded by RefSeq

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Other Designations	OTTHUMP00000174431|OTTHUMP00000174432|aging-associated gene 9 protein|glyceraldehyde 3-phosphate dehydrogenase

Pathway

- Biosynthesis of alkaloids derived from histidine and purine
- 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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