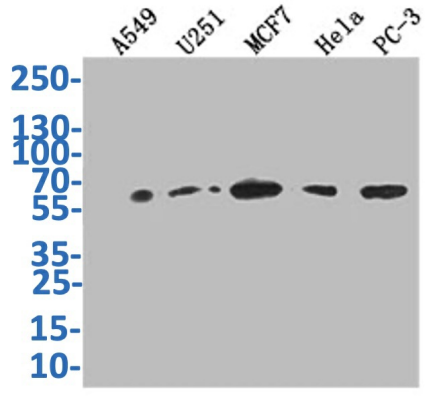
RecomAb™

GPI recombinant monoclonal antibody, clone 12A4

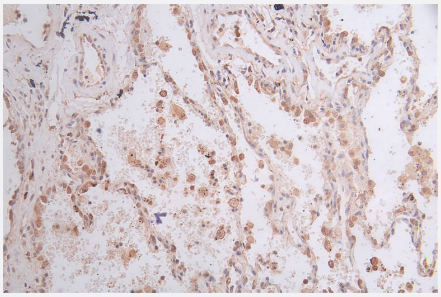
Catalog # RAB07736 Size 100 uL

Applications



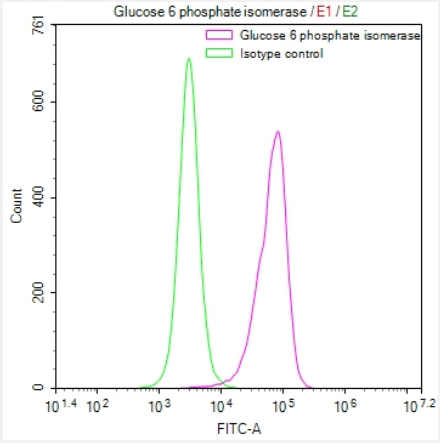
Western Blot

Western Blot analysis of Lane 1: A549 whole cell lysate; Lane 2: U251 whole cell lysate; Lane 3: MCF7 whole cell lysate; Lane 4: HELA whole cell lysate; Lane 5: PC-3 whole cell lysate.



Immunohistochemistry

Immunohistochemistry image of GPI recombinant monoclonal antibody, clone 12A4 diluted at 1:50 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system.



Flow Cytometry

Overlay Peak curve showing A549 cells stained with GPI recombinant monoclonal antibody, clone 12A4 (red line) at 1:50.

Specification

Product Description	Rabbit recombinant monoclonal antibody raised against human GPI.
Antibody Species	Rabbit
Immunogen	Original antibody is raised against a synthetic peptide corresponding to human GPI.
Theoretical MW (kDa)	Calculated MW: 63
Reactivity	Human
Form	Liquid
Purification	Affinity chromatography purification
Isotype	IgG
Recommend Usage	ELISA Flow Cytometry(1:50-1:200) Immunohistochemistry(1:50-1:200) 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.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only.

Applications

- Western Blot

  Western Blot analysis of Lane 1: A549 whole cell lysate; Lane 2: U251 whole cell lysate; Lane 3: MCF7 whole cell lysate; Lane 4: HELA whole cell lysate; Lane 5: PC-3 whole cell lysate.

- Immunohistochemistry

  Immunohistochemistry image of GPI recombinant monoclonal antibody, clone 12A4 diluted at 1:50 and staining in paraffin-embedded human lung cancer performed on a Leica BondTM system.

- Enzyme-linked Immunoabsorbent Assay

- Flow Cytometry

  Overlay Peak curve showing A549 cells stained with GPI recombinant monoclonal antibody, clone 12A4 (red line) at 1:50.

Gene Info — GPI

Entrez GeneID	2821
Protein Accession#	P06744
Gene Name	GPI
Gene Alias	AMF, GNPI, NLK, PGI, PHI, SA-36
Gene Description	glucose phosphate isomerase
Omim ID	172400
Gene Ontology	Hyperlink
Gene Summary	This gene belongs to the GPI family whose members encode multifunctional phosphoglucose isomerase proteins involved in energy pathways. The protein encoded by this gene is a dimeric enzyme that catalyzes the reversible isomerization of glucose-6-phosphate and fructose-6-phosphate. The protein functions in different capacities inside and outside the cell. In the cytoplasm, the gene product is involved in glycolysis and gluconeogenesis, while outside the cell it functions as a neurotrophic factor for spinal and sensory neurons. Defects in this gene are the cause of nonspherocytic hemolytic anemia and a severe enzyme deficiency can be associated with hydrops fetalis, immediate neonatal death and neurological impairment. [provided by RefSeq
Other Designations	autocrine motility factor|glucose-6-phosphate isomerase|hexose monophosphate isomerase|hexosephosphate isomerase|neuroleukin|oxoisomerase|phosphoglucose isomerase|phosphohexomutase|phosphohexose isomerase|phosphosaccharomutase|sperm antigen-36

Pathway

- Amino sugar and nucleotide sugar metabolism
- 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
- Pentose phosphate pathway
- Starch and sucrose metabolism