

GPI Antibody (clone 4B11)

Mouse Monoclonal Antibody Catalog # ALS16950

Specification

GPI Antibody (clone 4B11) - Product Information

Application IHC, IF, WB **Primary Accession** P06744 Other Accession 2821 Reactivity Human Host Mouse Clonality **Monoclonal** Isotype IqG1 Calculated MW 63147

GPI Antibody (clone 4B11) - Additional Information

Gene ID 2821

Other Names

GPI, AMF, Autocrine motility factor, Glucose phosphate isomerase, Hexose monophosphate isomerase, Hexosephosphate isomerase, Neuroleukin, Oxoisomerase, Phosphoglucose isomerase, Phosphohexomutase, Phosphohexose isomerase, SA36, PGI, SA-36, Glucose-6- ...

Target/Specificity

Human GPI

Reconstitution & Storage

PBS, pH 7.3, 1% BSA, 50% glycerol, 0.02% sodium azide. Store at -20°C. Minimize freezing and thawing.

Precautions

GPI Antibody (clone 4B11) is for research use only and not for use in diagnostic or therapeutic procedures.

GPI Antibody (clone 4B11) - Protein Information

Name GPI {ECO:0000303|PubMed:2387591, ECO:0000312|HGNC:HGNC:4458}

Function

In the cytoplasm, catalyzes the conversion of glucose-6- phosphate to fructose-6-phosphate, the second step in glycolysis, and the reverse reaction during gluconeogenesis (PubMed:28803808). Besides it's role as a glycolytic enzyme, also acts as a secreted cytokine: acts as an angiogenic factor (AMF) that stimulates endothelial cell motility (PubMed:11437381). Acts as a neurotrophic factor, neuroleukin, for spinal and sensory neurons (PubMed:11004567, PubMed:<a



 $href="http://www.uniprot.org/citations/3352745" target="_blank">3352745). It is secreted by lectin-stimulated T-cells and induces immunoglobulin secretion (PubMed:11004567, PubMed:3352745).$

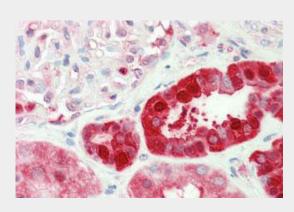
Cellular Location Cytoplasm. Secreted

GPI Antibody (clone 4B11) - Protocols

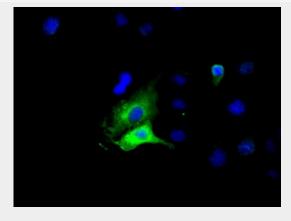
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

GPI Antibody (clone 4B11) - Images

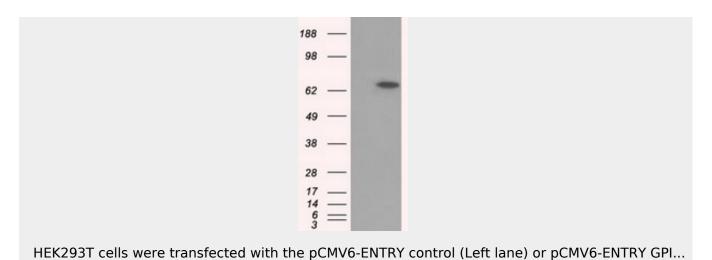


Anti-GPI antibody IHC staining of human kidney.



Anti-GPI mouse monoclonal antibody immunofluorescent staining of COS7 cells transiently...





GPI Antibody (clone 4B11) - Background

Besides it's role as a glycolytic enzyme, mammalian GPI can function as a tumor-secreted cytokine and an angiogenic factor (AMF) that stimulates endothelial cell motility. GPI is also a neurotrophic factor (Neuroleukin) for spinal and sensory neurons.

GPI Antibody (clone 4B11) - References

Gurney M.E.,et al.Submitted (MAR-1987) to the EMBL/GenBank/DDBJ databases. Yakirevich E.,et al.Biol. Reprod. 62:1016-1023(2000). Ota T.,et al.Nat. Genet. 36:40-45(2004). Grimwood J.,et al.Nature 428:529-535(2004). Walker J.I.H.,et al.Genomics 7:638-643(1990).