GLS2 monoclonal antibody

Catalog: MB67242 Host: Mouse Reactivity: Human, Mouse

BackGround:

Glutaminase catalyzes the conversion of glutamine to glutamate, the first and rate-limiting step of glutaminolysis. Both kidney-type glutaminase (GLS1) and liver-type glutaminase (GLS2) are found in mammals. GLS1-mediated glutathione synthesis plays an essential role in redox homeostasis and contributes to increased survival of postimplantation bone cells preconditioned to the hypoxic and ischemic environment in the bone defect site. In addition, KEAP1–NRF2-mutant LUAD (KRAS-mutant lung adenocarcinoma) tumors are dependent on increased glutaminolysis. Furthermore, recent studies showed higher glutaminolysis and glucose production from glutamine in human primary hepatocytes with GLS2 gain-of-function missense mutations. These findings suggest GLS1 and GLS2 as potential targets in the therapy of bone regeneration and in the treatments of diseases such as cancer and hyperglycemia, respectively.

Product:

Mouse IgG1 kappa. Liquid in PBS, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~ 60 kDa

Swiss-Prot:

Q9UI32

Purification&Purity:

This antibody is purified through a protein G column.

Applications:

WB (1/500 - 1/1000), IHC (1/50 - 1/200)

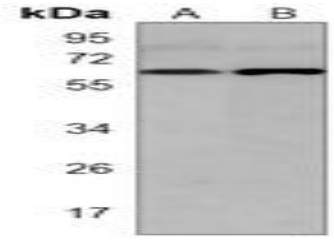
Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

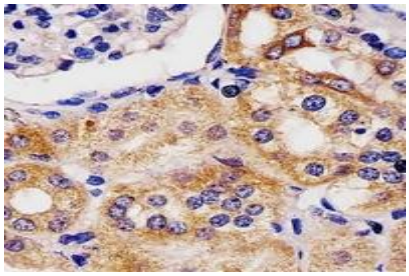
Specificity:

Recognizes endogenous levels of GLS2 protein.

DATA:



Western blot analysis of GLS2 expression in human brain (A), mouse liver (B) whole cell lysates.



Immunohistochemical analysis of GLS2 staining in human kidney formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). 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.

Note:

For research use only, not for use in diagnostic procedure.

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