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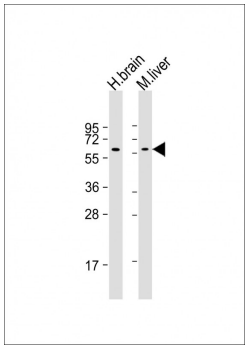
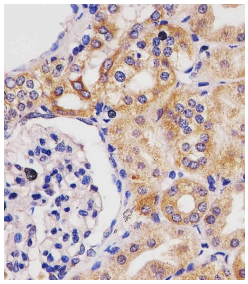
GLS2 Mouse mAb

Catalog Number:	bsm-51645M
Target Protein:	GLS2
Concentration:	1mg/ml
Form:	Liquid
Host:	Mouse
Clonality:	Monoclonal
Clone No.:	Y09A1
Isotype:	IgG1,k
Applications:	WB (1:500-2000), IHC-P (1:50-200), IHC-F (1:50-200), IF (1:50-200)
Reactivity:	Human
Predicted MW:	65 kDa
Subcellular Locations:	Cytoplasm
Entrez Gene:	27165
Swiss Prot:	Q9UI32
Purification:	affinity purified by Protein G
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Background:	LGA is a 602 amino acid protein that localizes to the mitochondrion and contains two ANK repeats. Expressed in brain, liver and pancreas, LGA functions as a mitochondrial phosphate-activated glutaminase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. LGA is overexpressed in breast cancer cell lines, suggesting a role for LGA in tumorigenesis. The gene encoding LGA maps to human chromosome 12, which encodes over 1,100 genes and comprises approximately 4.5% of the human genome. Chromosome 12 is associated with a variety of diseases and afflictions, including hypochondrogenesis, achondrogenesis, Kniest dysplasia, Noonan syndrome and Trisomy 12p, which causes facial developmental defects and seizure disorders.

VALIDATION IMAGES



Sample: Lane 1: Human brain tissue lysates Lane 2: Mouse liver tissue lysates Primary: Anti-GLS2 (bsm-51645M) at 1/1000~2000 dilution Secondary: IRDye800CW Goat Anti-Mouse IgG at 1/20000 dilution Predicted band size: 65 kD Observed band size: 65 kD



Paraformaldehyde-fixed, paraffin embedded (Human kidney tissue sections); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (GLS2) Monoclonal Antibody, Unconjugated (bsm-51645M) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Mouse)(sp-0024) instructionsand DAB staining.

PRODUCT SPECIFIC PUBLICATIONS

[IF=2.2] Zhou Hua. et al. A ferroptosis-related signature predicts the clinical diagnosis and prognosis, and associates with the immune microenvironment of lung cancer. Discover Oncology. 2024 Dec;15(1):1-19 IHC ; Human . 38743344