

bs-10341R**[Primary Antibody]****GLS1 Rabbit pAb****Bioss**
ANTIBODIES

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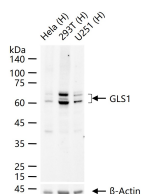
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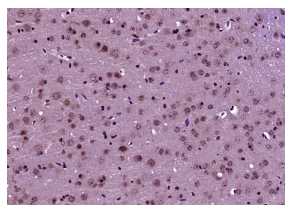
400-901-9800

— DATASHEET —

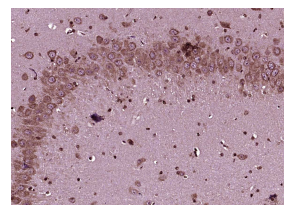
Host: Rabbit	Isotype: IgG	Applications: WB (1:500-2000) IHC-P (1:100-500) IHC-F (1:100-500) IF (1:100-500) ELISA (1:5000-10000)
Clonality: Polyclonal		
GeneID: 2744	SWISS: Q94925	
Target: GLS1		
Immunogen: KLH conjugated synthetic peptide derived from human GLS1: 141-240/669.		
Purification: affinity purified by Protein A		Reactivity: Human, Mouse, Rat (predicted: Cow)
Concentration: 1mg/ml		Predicted MW.: 72 kDa Subcellular Location: Cytoplasm
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: This gene encodes the K-type mitochondrial glutaminase. The encoded protein is an phosphate-activated amidohydrolase that catalyzes the hydrolysis of glutamine to glutamate and ammonia. This protein is primarily expressed in the brain and kidney plays an essential role in generating energy for metabolism, synthesizing the brain neurotransmitter glutamate and maintaining acid-base balance in the kidney. Alternate splicing results in multiple transcript variants. [provided by RefSeq, Jan 2012].		

— VALIDATION IMAGES —

25 ug total protein per lane of various lysates (see on figure) probed with GLS1 polyclonal antibody, unconjugated (bs-10341R) at 1:1000 dilution and 4°C overnight incubation. Followed by conjugated secondary antibody incubation at r.t. for 60 min.



Paraformaldehyde-fixed, paraffin embedded (Mouse brain); 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 (GLS1) Polyclonal Antibody, Unconjugated (bs-10341R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Paraformaldehyde-fixed, paraffin embedded (Rat brain); 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 (GLS1) Polyclonal Antibody, Unconjugated (bs-10341R) at 1:400 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.

— SELECTED CITATIONS —

- **[IF=14.6]** Yunfei Yi. et al. siRNA micelleplexes-mediated glutamine metabolism re-engineering for vascular normalization-boosted photo-immunotherapy. ACTA PHARM SIN B. 2025 Feb;; IF ;Mouse. 40486857
- **[IF=5.2]** Shujing Zhou. et al. Comprehensive bioinformatics analytics and in vivo validation reveal SLC31A1 as an emerging diagnostic biomarker for acute myocardial infarction. AGING-US. 2024 May 15; 16(9): 8361-8377 IHC ;Mouse. 38713173
- **[IF=4.1]** Wenjing Lu. et al. Seasonal changes of vitamin D3 and ovarian steroidogenesis in the wild ground squirrels (Citellus dauricus Brandt). J STEROID BIOCHEM. 2023 Nov;234:106385 IHC ;Squirrel. 37633652

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

- **[IF=2.8]** Xia-Qing Cai. et al. Glutamate rescues heat stress-induced apoptosis of Sertoli cells by enhancing the activity of antioxidant enzymes and activating the Trx1-Akt pathway in vitro. THERIOGENOLOGY. 2024 Jul;223:1 WB ;Pig. 38642435
- **[IF=2.343]** Tsai HW et al. Inhibition of glutaminase to reverse fibrosis in iatrogenic laryngotracheal stenosis. Laryngoscope. 2020 Jan 6. IHC ;Human. 31904876