bs-23361R **[Primary Antibody]**

GCLM Rabbit pAb

www.bioss.com.cn
sales@bioss.com.cn
techsupport@bioss.com.cn
400-901-9800

DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2730 **SWISS:** P48507

Target: GCLM

Immunogen: KLH conjugated synthetic peptide derived from human GCLM: 31-120/274.

Purification: affinity purified by Protein A

Concentration: 1mg/ml

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: Glutamate-cysteine ligase, also known as gamma-glutamylcysteine synthetase, is the first rate limiting enzyme of glutathione synthesis. The enzyme consists of two subunits, a heavy catalytic subunit and a light regulatory subunit. Gamma glutamylcysteine synthetase deficiency has been implicated in some forms of hemolytic anemia. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Apr 2015]

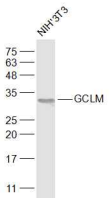
Applications: **WB** (1:500-2000)

Reactivity: Human, Mouse (predicted: Rat, Rabbit, Pig, Sheep, Cow, Dog, Horse)

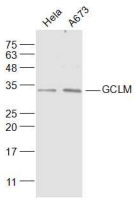
Predicted MW.: 31 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Sample: NIH/3T3(Mouse) Cell Lysate at 30 ug Primary: Anti-GCLM (bs-23361R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31 kD Observed band size: 31 kD



Sample: Hela(Human) Cell Lysate at 30 ug A673(Human) Cell Lysate at 30 ug Primary: Anti-GCLM (bs-23361R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 31 kD Observed band size: 31 kD

SELECTED CITATIONS

- **[IF=8.355]** Shi S et al. Homologous-targeting biomimetic nanoparticles for photothermal therapy and Nrf2-siRNA amplified photodynamic therapy against oral tongue squamous cell carcinoma. Chemical Engineering Journal, 2020, 124268. WB ;Human. doi:10.1016/j.cej.2020.124268
- **[IF=4.253]** Mengru Li. et al. The leaves of Scutellaria baicalensis Georgi attenuate brain aging in D-galactose-induced rats via regulating glutamate metabolism and Nrf2 signaling pathway. EXP GERONTOL. 2022 Dec;170:111978 WB ;Rat. 36244586
- **[IF=3.7]** Yunhui Fan. et al. Role of hypoxia-inducible-factor-1α (HIF-1α) in ferroptosis of adipose tissue during ketosis. J DAIRY SCI. 2024 Jul;: WB ;Bovine. 39067746
- **[IF=3.3]** Chen Chunni. et al. Study on the targeted regulation of Scutellaria baicalensis leaf on glutamine–glutamate metabolism and glutathione synthesis in the liver of D-gal ageing rats. J PHARM PHARMACOL. 2023 Jun;: WB ;Rat.

37329511

- **[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