bs-3155R **[Primary Antibody]**

phospho-GCN2 (Thr899) Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 440275 **SWISS:** Q9P2K8

Target: GCN2 (Thr899)

Immunogen: KLH conjugated Synthesised phosphopeptide derived from human GCN2 around the phosphorylation site of Thr899: HL(p-T)GM.

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: GCN2 belongs to a family of kinases that phosphorylate the alpha subunit of eukaryotic translation initiation factor 2 to downregulate protein synthesis in response to varied cellular stresses.

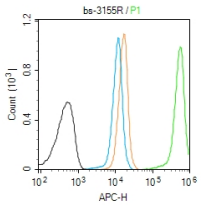
Applications: **Flow-Cyt** (1ug/Test)

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

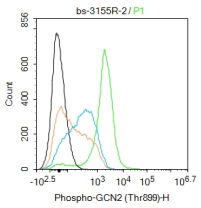
Predicted MW.: 189 kDa

Subcellular Location: Cytoplasm

VALIDATION IMAGES



Blank control (Black line): Molt4 (Black). Primary Antibody (green line):Rabbit Anti-Phospho-GCN2 (Thr899) antibody (bs-3155R) Dilution:1µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody (white blue line): Goat anti-rabbit IgG-AF647 Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 90% ice-cold methanol for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.



Blank control:Mouse spleen. Primary Antibody (green line): Rabbit Anti-Phospho-GCN2 (Thr899) antibody (bs-3155R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-FITC Dilution: 1µg /test. Protocol The cells were fixed with 4% PFA (10min at room temperature)and then permeabilized with 0.1% PBST for 20 min at room temperature. The cells were then incubated in 5%BSA to block non-specific protein-protein interactions for 30 min at room temperature .Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature. Acquisition of 20,000 events was performed.

SELECTED CITATIONS

- **[IF=25.269]** Changzheng Li. et al. Amino acid catabolism regulates hematopoietic stem cell proteostasis via a GCN2-eIF2α axis. CELL STEM CELL. 2022 Jul;29:1119 WB ;Mouse. 35803229
- **[IF=5.58]** Lehman, Stacey L., Sandra Ryeom, and Constantinos Koumenis. "Signaling through alternative Integrated Stress Response pathways compensates for GCN2 loss in a mouse model of soft tissue sarcoma." Scientific Reports 5 (2015). WB ;="Mouse". 26123823
- **[IF=4.9]** Zikang Xing. et al. IDO1 Inhibitor RY103 Suppresses Trp-GCN2-Mediated Angiogenesis and Counters

Immunosuppression in Glioblastoma. PHARMACEUTICS. 2024 Jul;16(7):870 WB ;Mouse,Human.
10.3390/pharmaceutics16070870