bs-1351R **[Primary Antibody]**

Granzyme B Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 3002 **SWISS:** P10144

Target: Granzyme B

Immunogen: KLH conjugated synthetic peptide derived from human GZMB: 21-130/247.

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: Cytolytic T lymphocytes (CTL) and natural killer (NK) cells share the remarkable ability to recognize, bind, and lyse specific target cells. They are thought to protect their host by lysing cells bearing on their surface 'nonself' antigens, usually peptides or proteins resulting from infection by intracellular pathogens. The protein encoded by this gene is crucial for the rapid induction of target cell apoptosis by CTL in cell-mediated immune response. [provided by RefSeq, Jul 2008]

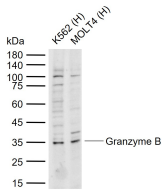
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (2ug/Test)

Reactivity: Human (predicted: Mouse, Rat, Pig, Cow)

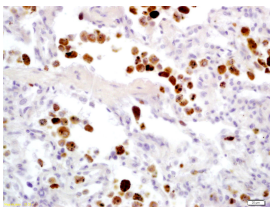
Predicted MW.: 25 kDa

Subcellular Location: Secreted ,Extracellular matrix

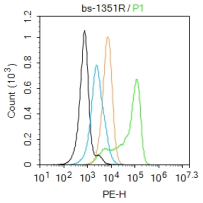
VALIDATION IMAGES



Sample: Lane 1: Human K562 cell lysates Lane 2: Human MOLT4 cell lysates Primary: Anti-Granzyme B (bs-1351R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 25 kDa Observed band size: 35 kDa



Tissue/cell: human lung carcinoma; 4% Paraformaldehyde-fixed and paraffin-embedded; Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min; Incubation: Anti-Granzyme B Polyclonal Antibody, Unconjugated(bs-1351R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Blank control:U937. Primary Antibody (green line): Rabbit Anti-Granzyme B antibody (bs-1351R) Dilution: 2µg /10^6 cells; Isotype Control Antibody (orange line): Rabbit IgG . Secondary Antibody : Goat anti-rabbit IgG-PE 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 PBST. 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=20.8]** Peixin Chen. et al. Selective depletion of CCR8+Treg cells enhances anti-tumor immunity of cytotoxic T cells in lung cancer via dendritic cells. J THORAC ONCOL. 2025 Mar;: mIF ;Mouse. 40056978
- **[IF=16.988]** Wu Yutong. et al. Osteoclast-Derived Apoptotic Bodies Inhibit Naive Cd8 T Cell Activation via

Siglec15 Promoting Breast Cancer Secondary Metastasis. Cell Reports Medicine. 2022 Nov 03 IHC ;Mouse. 37607544

- **[IF=14.3]** Yan Liang. et al.Restoring Tumor Cell Immunogenicity Through Ion-Assisted p53 mRNA Domestication for Enhanced In Situ Cancer Vaccination Effect.ADVANCED SCIENCE.2025 Feb 18:e2500825. IF ;Mouse. 10.1002/advs.202500825
- **[IF=11.4]** Yan Meng. et al. GPNMB+Gal-3+ hepatic parenchymal cells promote immunosuppression and hepatocellular carcinogenesis. EMBO J. 2023 Dec;42(24):e114060 FCM ;Rat. 38009297
- **[IF=10.3]** Anton Lahusen. et al. Pancreatic cancer cell-intrinsic transglutaminase-2 promotes T cell suppression through microtubule-dependent secretion of immunosuppressive cytokinesJ IMMUNOTHER CANCER. 2025 Jan 6;13(1):e010029. IHC ;mouse. 39824529