bs-1162R **[Primary Antibody]**

CXCL2/GRO Beta Rabbit pAb

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DATASHEET

Host: Rabbit **Isotype:** IgG

Clonality: Polyclonal

GeneID: 2920 **SWISS:** P19875

Target: CXCL2/GRO Beta

Immunogen: KLH conjugated synthetic peptide derived from human MIP2: 51-107/107.

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: GRO beta is a member of the CXC, or chemokine class. It contains the ELR domain immediately preceding the first cysteine residue near the amino terminus. Other chemokines in this group include IL8, GRO alpha/beta/gamma, mouse KC, ENA78, GCP2, PBP/CTAPIII/beta TG/NAP2. These chemokines act primarily on neutrophils as chemoattractants and activators, including neutrophil degradation with release of myloperoxidase and other enzymes. GRO beta was originally identified as a heparin-binding protein secreted from a murine macrophage cell line in response to endotoxin stimulation. GRO beta is an approximately 8 kDa polypeptide of 73 amino acids. The precursor form of GRO beta consists of 100 amino acids. To generate the mature GRO beta, the precursor cleaves its amino terminal 27 amino acids. GRO beta shows 60% amino acid homology to human GRO alpha and GRO gamma.

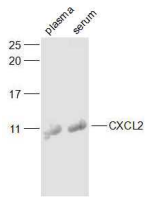
Applications: **WB** (1:500-2000)
IHC-P (1:100-500)
IHC-F (1:100-500)
IF (1:100-500)
Flow-Cyt (0.2ug/test)

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

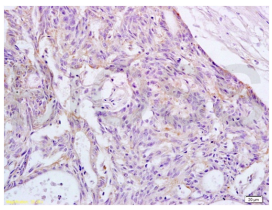
Predicted MW.: 12 kDa

Subcellular Location: Secreted

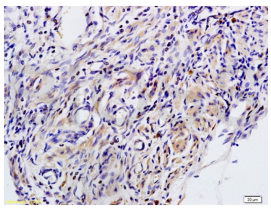
VALIDATION IMAGES



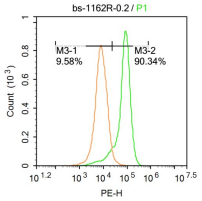
Sample: Plasma (Rat) at 40 ug Serum (Rat) at 40 ug Primary: Anti-CXCL2 (bs-1162R) at 1/1000 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 12 kD Observed band size: 12 kD



Tissue/cell: human rectal 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-MIP2/GRO Beta/CXCL2 Polyclonal Antibody, Unconjugated(bs-1162R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: mouse uterus tissue; 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-MIP2/GRO Beta/CXCL2 Polyclonal Antibody, Unconjugated(bs-1162R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



U-937 cells were fixed with 4% PFA for 10min at room temperature,permeabilized with 20% PBST for 20 min at room temperature, and incubated in 5% BSA blocking buffer for 30 min at room temperature. Cells were then stained with bs-1162R Antibody at 1:500 dilution in blocking buffer and incubated for 30 min at room temperature, washed twice with 2%BSA in PBS, followed by secondary antibody incubation for 40 min at room temperature. Acquisitions of 20,000 events were performed. Cells stained with primary antibody (green), and isotype control (orange).

SELECTED CITATIONS

- **[IF=13.3]** Jia You. et al. Thoracic perfusion of Esculentoside A-loaded thermosensitive hydrogel for the treatment of malignant pleural effusion in lung cancer. CHEM ENG J. 2025 May;512:162404 IHC ;Mouse. 10.1016/j.cej.2025.162404
- **[IF=9]** Nie Fujiao. et al. The role of CXCL2-mediated crosstalk between tumor cells and macrophages in Fusobacterium nucleatum-promoted oral squamous cell carcinoma progression. CELL DEATH DIS. 2024 Apr;15(4):1-15 WB,IHC,IF ;Human,Mouse. 38637499
- **[IF=9.417]** Yuqin Yang. et al. Natural small molecule self-assembled hydrogel inhibited tumor growth and lung metastasis of 4T1 breast cancer by regulating the CXCL1/2-S100A8/9 axis. MATER DESIGN. 2022 Nov;:111435 WB ;Mouse. 10.1016/j.matdes.2022.111435
- **[IF=7.9]** Jialing Bai. et al. Dioscin decreases M2 polarization via inhibiting a positive feedback loop between RBM47 and NF-κB in glioma. PHYTOMEDICINE. 2024 Feb;:155417 WB ;Human. 10.1016/j.phymed.2024.155417
- **[IF=8.1]** Fujiao Nie. et al.The role of CXCL2-mediated crosstalk between tumor cells and macrophages in Fusobacterium nucleatum -promoted oral squamous cell carcinoma progression.cell death dis.2024 Apr 18;15(4):277. IHC ;. 38637499