

Anti-IL-8 Antibody [PSH10-96] - BSA and Azide free

HA751386



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, FC
Molecular Wt:	Predicted band size: 11 kDa
Clone number:	PSH10-96

Description: Interleukin 8 (IL-8 or chemokine (C-X-C motif) ligand 8, CXCL8) is a chemokine produced by macrophages and other cell types such as epithelial cells, airway smooth muscle cells and endothelial cells. Endothelial cells store IL-8 in their storage vesicles, the Weibel-Palade bodies. In humans, the interleukin-8 protein is encoded by the CXCL8 gene. IL-8 is initially produced as a precursor peptide of 99 amino acids which then undergoes cleavage to create several active IL-8 isoforms. In culture, a 72 amino acid peptide is the major form secreted by macrophages. There are many receptors on the surface membrane capable of binding IL-8; the most frequently studied types are the G protein-coupled serpentine receptors CXCR1 and CXCR2. Expression and affinity for IL-8 differs between the two receptors (CXCR1 > CXCR2). Through a chain of biochemical reactions, IL-8 is secreted and is an important mediator of the immune reaction in the innate immune system response.

Immunogen: Recombinant protein within human IL-8 aa 1-99.

Positive control: U-937 treated with 100ng/mL TPA for 24 hours then add 5µg/mL LPS for 4 hours then add 300ng/mL BFA for 3 hours cell lysate, U-937 treated with 100ng/mL TPA for 24 hours then add 5µg/mL LPS for 4 hours then add 300ng/mL BFA for 3 hours.

Subcellular location: Secreted.

Database links: SwissProt: P10145 Human

Recommended Dilutions:

WB	1:2,000
FC	1:1,000

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at +4℃ after thawing. Aliquot store at -20℃. Avoid repeated freeze / thaw cycles.

Purity: Protein A affinity purified.

Hangzhou Huaan Biotechnology Co., Ltd.

Orders:0086-571-88062880

Technical:0086-571-89986345

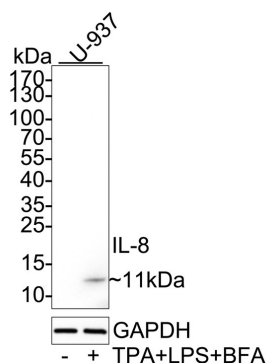
Service mail:support@huabio.cn

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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Western blot analysis of IL-8 on different lysates with Rabbit anti-IL-8 antibody (HA751386) at 1/2,000 dilution.



Lane 1: U-937 cell lysate

Lane 2: U-937 treated with 100ng/mL TPA for 24 hours then add 5μg/mL LPS for 4 hours then add 300ng/mL BFA for 3 hours cell lysate

Lysates/proteins at 10 μg/Lane.

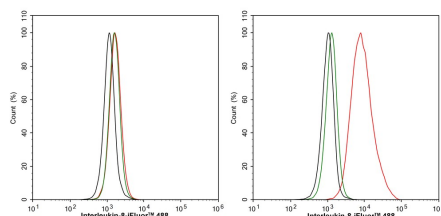
Predicted band size: 11 kDa

Observed band size: 11 kDa

Exposure time: 3 minutes; ECL: K1801;
4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody (HA751386) at 1/2,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: Flow cytometric analysis of U-937 cells untreated (left) / treated with 100ng/mL TPA for 24 hours then add 5μg/mL LPS for 4 hours then add 300ng/mL BFA for 3 hours (right) labeling IL-8.



Cells were fixed and permeabilized. Then stained with the primary antibody (HA751386, 1/1,000) (red) compared with Rabbit IgG Isotype Control (green). After incubation of the primary antibody at +4°C for an hour, the cells were stained with a iFluor™ 488 conjugate-Goat anti-Rabbit IgG Secondary antibody (HA1121) at 1/1,000 dilution for 30 minutes at +4°C. Unlabelled sample was used as a control (cells without incubation with primary antibody; black).

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

Background References

1. Ramachandra N et al. Role of IL8 in myeloid malignancies. Leuk Lymphoma. 2023 Nov-Dec
2. Jiang H et al. Targeting IL8 as a sequential therapy strategy to overcome chemotherapy resistance in advanced gastric cancer. Cell Death Discov. 2022 Apr

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