

Anti-CXCL5 Antibody [PSH22-57] - BSA and Azide free

HA751870



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	WB, IF-Cell, FC
Molecular Wt:	Predicted band size: 12 kDa
Clone number:	PSH22-57

Description: The protein encoded by this gene, CXCL5 is a small cytokine belonging to the CXC chemokine family that is also known as epithelial-derived neutrophil-activating peptide 78 (ENA-78). It is produced following stimulation of cells with the inflammatory cytokines interleukin-1 or tumor necrosis factor- α . Expression of CXCL5 has also been observed in eosinophils, and can be inhibited with the type II interferon IFN- γ . This chemokine stimulates the chemotaxis of neutrophils possessing angiogenic properties. It elicits these effects by interacting with the cell surface chemokine receptor CXCR2. The gene for CXCL5 has four exons and is located on human chromosome 4 amongst several other CXC chemokine genes. CXCL5 has been implicated in connective tissue remodelling. CXCL5 has been also described to regulate neutrophil homeostasis.

Immunogen: Recombinant protein within human CXCL5 aa 1-114.

Positive control: A549 treated with 10ng/mL TNF- α and 10nM TPA for 24 hours cell lysate, A549 cells starved overnight then treated with 10ng/mL TNF- α and 10nM TPA for 24 hours add 300ng/mL BFA for last 3 hours.

Subcellular location: Secreted.

Database links: SwissProt: P42830 Human

Storage Buffer: PBS (pH7.4).

Storage Instruction: Store at 2-8°C. Avoid freeze.

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

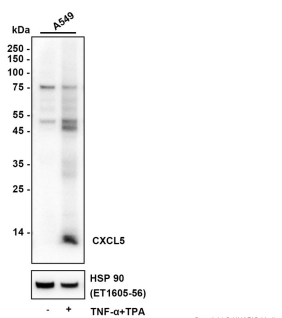
Images

Fig1: This data was developed using HA724307, the same antibody clone in a different buffer formulation.

Western blot analysis of CXCL5 on different lysates with Rabbit anti-CXCL5 antibody (HA724307) at 1/5,000 dilution.

Lane 1: A549 cell lysate

Lane 2: A549 treated with 10ng/mL TNF- α and 10nM TPA for 24 hours cell lysate



Lysates/proteins at 20 μ g/Lane.

Predicted band size: 12 kDa

Observed band size: 12 kDa

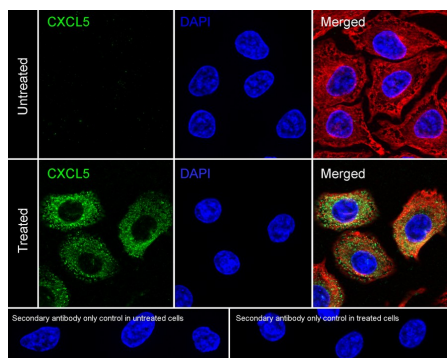
Exposure time: 20 seconds; ECL: K1801;

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 (HA724307) at 1/5,000 dilution was used in primary antibody dilution (K1803) at 4 $^{\circ}$ C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody (HA1001) at 1/50,000 dilution was used for 1 hour at room temperature.

Fig2: This data was developed using HA724307, the same antibody clone in a different buffer formulation.

Immunocytochemistry analysis of A549 cells untreated / starved overnight then treated with 10ng/mL TNF- α and 10nM TPA for 24 hours add 300ng/mL BFA for last 3 hours labeling CXCL5 with Rabbit anti-CXCL5 antibody (HA724307) at 1/100 dilution.



Cells were fixed in 4% paraformaldehyde for 15 minutes at room temperature, permeabilized with 0.1% Triton X-100 in PBS for 15 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-CXCL5 antibody (HA724307) at 1/100 dilution in 1% BSA in PBST overnight at 4 $^{\circ}$ C. Goat Anti-Rabbit IgG H&L (iFluorTM 488, HA1121) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.

Beta tubulin (HA601187, red) was stained at 1/100 dilution overnight at +4 $^{\circ}$ C. Goat Anti-Mouse IgG H&L (iFluorTM 594, HA1126) was used as the secondary antibody at 1/1,000 dilution.

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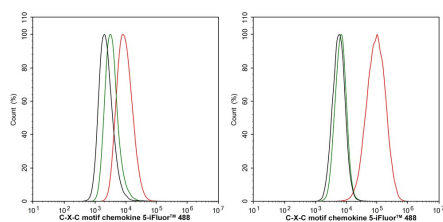


Fig3: This data was developed using HA724307, the same antibody clone in a different buffer formulation.

Flow cytometric analysis of A549 cells untreated (left) / starved overnight then treated with 10ng/mL TNF- α and 10nM TPA for 24 hours add 300ng/mL BFA for last 3 hours (right) labeling CXCL5.

Cells were fixed and permeabilized. Then stained with the primary antibody (HA724307, 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. Cao Q et al. Astrocytic CXCL5 hinders microglial phagocytosis of myelin debris and aggravates white matter injury in chronic cerebral ischemia. *J Neuroinflammation*. 2023 May
2. Chen C et al. CXCL5 suppression recovers neovascularization and accelerates wound healing in diabetes mellitus. *Cardiovasc Diabetol*. 2023 Jul

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