

Anti-Human CXCL5 Antibody [PSH18-70] - BSA and Azide free (Capture)

HA725361



Product Type:	Recombinant Rabbit monoclonal IgG, primary antibodies
Species reactivity:	Human
Applications:	ELISA(Cap)
Clone number:	PSH18-70

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-alpha. 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 37-114 (HA210887).

Positive control: Recombinant Human CXCL5 protein (HA210887).

Subcellular location: Secreted.

Database links: SwissProt: P42830 Human

Recommended Dilutions:

ELISA(Cap) Use at an assay dependent concentration. Can be paired for Sandwich ELISA with Rabbit monoclonal [PSH18-71] to Human CXCL5 antibody (Detector) (HA725362) and Recombinant Human CXCL5 protein (HA210887) as the standard. The reference range value is 19.5-10,000 pg/mL.

Storage Buffer: 1*PBS (pH7.4).

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

Purity: Protein A affinity purified.

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Technical:0086-571-89986345

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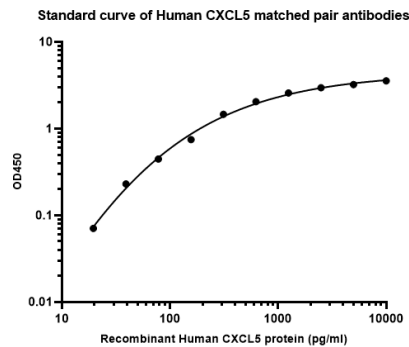
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Applications:WB=Western blot IHC-P=Immunohistochemistry (paraffin) IF-Cell=Immunofluorescence (Cell) IF-Tissue=Immunofluorescence (Tissue) FC=Flow cytometry IP=Immunoprecipitation

Images

Fig1: Sandwich ELISA analysis of human CXCL5 matched pair antibodies

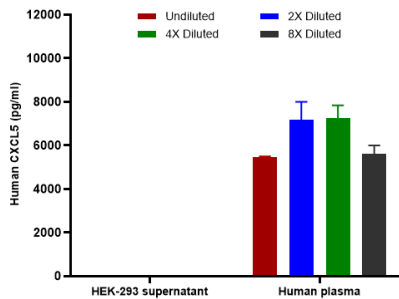
Capture: HA725361, Human CXCL5 Rabbit mAb [PSH18-70]
Detector: HA725362, Human CXCL5 Rabbit mAb [PSH18-71]



Elisa assay was performed by coating wells of a 96-well plate with 50 μ l per well of capture antibody (HA725361) diluted in carbonate/bicarbonate buffer, at a concentration of 2 μ g/ml overnight at 4 $^{\circ}$ C. Wells of the plate were washed, blocked with 150 μ l 0.05% tween-20 1% BSA blocking buffer, and incubated with serial diluted Recombinant Human CXCL5 protein (HA210887) starting from 10,000 pg/ml to 0 pg/ml and detect antibody (HA725362, Biotin, 0.2 μ g/ml) for 1 hour at 30 $^{\circ}$ C with shaking. Then the plate was washed and incubated with 50 μ l per well of SA-HRP for 0.5 hour at 30 $^{\circ}$ C with shaking. Detection was performed using an Ultra TMB Substrate for 10 minutes at 37 $^{\circ}$ C in the dark. The reaction was stopped with sulfuric acid and absorbances were read on a spectrophotometer at 450 nm.

Fig2: Interpolated concentrations of native CXCL5 in HeLa cell culture supernatant and human plasma samples.

Capture: HA725361, Human CXCL5 Rabbit mAb [PSH18-70]
Detector: HA725362, Human CXCL5 Rabbit mAb [PSH18-71]



The concentrations of CXCL5 were measured in duplicates, interpolated from the CXCL5 standard curve and corrected for sample dilution. Undiluted samples are HEK-293 cell culture supernatant 100% and human plasma 50%. The interpolated dilution factor corrected values are plotted (mean $\pm$ SD, n=2). The mean CXCL5 concentration was determined to be 6375 pg/ml in human plasma and undetectable in HEK-293 cell culture supernatant.

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