



Human pulmonary activation regulated chemokine, PARC ELISA Kit

Product Code	CSB-E09941h
Abbreviation	CCL18
Protein Biological Process 1	Immunity
Uniprot No.	P55774
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Sample Types	serum, plasma, cell culture supernates, tissue homogenates
Detection Range	31.25 pg/ml-2000 pg/ml
Sensitivity	7.81 pg/ml
Assay Time	1-5h
Sample Volume	50-100ul
Detection Wavelength	450 nm
Lead Time	3-5 working days after you place the order, and it takes another 3-5 days for delivery via DHL or FedEx.
Research Area	Immunology
Gene Names	CCL18
Tag Info	quantitative
Protein Description	Sandwich

Description

The ELISA Kit is designed for quantitatively measuring human PARC levels in samples, including serum, plasma, cell culture supernates, or tissue homogenates. It uses the sandwich enzyme immunoassay technique in combination with the enzyme-substrate chromogenic reaction to quantify the analyte in the sample. The color develops positively to the amount of PARC in samples. The color intensity is measured at 450 nm via a microplate reader.

PARC, also known as CCL18, is a chemokine primarily expressed in monocytes, macrophages, and immature dendritic cells and plays a crucial role in immune and inflammation responses. CCL18 attracts lymphocytes and immature dendritic cells and induces collagen deposition by fibroblasts. Recent studies have found that CCL18 is associated with the progression of malignant tumors. It is predominantly derived from breast tumor-associated macrophages (TAMs). Previous data indicate that the CCL18/Nir1 signaling promotes the invasion, metastasis, and EMT of breast cancer cells through the PI3K/Akt/GSK3 β /Snail signaling pathway. CCL18 also reduces proliferation in



non-small cell lung cancer cells and pre-B acute lymphocytic leukemia cells but enhances proliferation in breast cancer, diffuse large B cell lymphoma, ovarian cancer, osteosarcoma, and urothelial carcinoma.

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