Human Eotaxin 2/CCL24 ELISA Kit

Product Code	CSB-E10360h
Protein Biological Process 2	chemokine
Abbreviation	CCL24
Protein Biological Process 1	Cytokine
Target Name	chemokine (C-C motif) ligand 24
Uniprot No.	O00175
Alias	Ckb-6, MPIF-2, MPIF2, SCYA24, CK-beta-6|OTTHUMP00000210225|eotaxin-2|myeloid progenitor inhibitory factor 2|small inducible cytokine A24|small inducible cytokine subfamily A (Cys-Cys), member 24
Product Type	ELISA Kit
Immunogen Species	Homo sapiens (Human)
Protein Biological Process 3	Chemotaxis
Sample Types	serum, plasma, tissue homogenates
Detection Range	78.125 pg/mL-5000 pg/mL
Sensitivity	67.660 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	CCL24
Tag Info	quantitative
Protein Description	Sandwich
Description	This human CCL24 ELISA kit employs the quantitative sandwich enzyme immunoassay technique to measure the levels of human CCL24 in multiple samples, including serum, plasma, or tissue homogenates. It also uses the enzyme-substrate chromogenic reaction to visualize and analyze the analyte levels through the color intensity. The intensity of the colored product is in direct proportion to the CCL24 levels in the sample and is measured at 450 nm through a microplate reader.

CCL24, also known as eotaxin2, mainly chemoattracts eosinophils. It can promote the separation of eosinophils from endothelial cells and then combine with its sole ligand to promote eosinophils to enter the tissue. CCL24 promotes cell trafficking and regulates inflammatory and fibrotic activities mainly through the CCR3. CCL24 induces chemotaxis and activation of CCR3-expressing cells, including immune cells and fibroblasts. A study found that CCL24 stimulated human lung fibroblast proliferation and collagen synthesis and was associated with the progression of idiopathic pulmonary fibrosis. Suppressing the expression of CCL24 can reduce airway inflammation. Macrophages can also selectively induce the production of CCL24.

Target Details

This gene belongs to the subfamily of small cytokine CC genes. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The CC cytokines are proteins characterized by two adjacent cysteines. The cytokine encoded by this gene displays chemotactic activity on resting T lymphocytes, a minimal activity on neutrophils, and is negative on monocytes and activated T lymphocytes. The protein is also a strong suppressor of colony formation by a multipotential hematopoietic progenitor cell line.

Product Precision

Intra-assay Precision (Precision within an assay): CV%<8%

Three samples of known concentration were tested twenty times on one plate to assess.

Inter-assay Precision (Precision between assays): CV%<10%

Three samples of known concentration were tested in twenty assays to assess.

Linearity

To assess the linearity of the assay, samples were spiked with high concentrations of human eotaxin 2/CCL24 in various matrices and diluted with the Sample Diluent to produce samples with values within the dynamic range of the assay.

?	Sample	Serum(n=4)
1:1	Average %	95
	Range %	90-100
1:2	Average %	89
	Range %	85-94
1:4	Average %	96
	Range %	91-101
1:8	Average %	104
	Range %	100-108

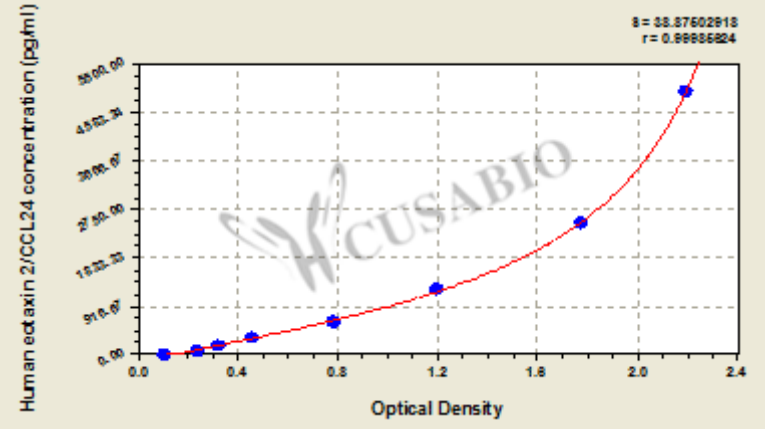
Recovery

The recovery of human eotaxin 2/CCL24 spiked to levels throughout the range of the assay in various matrices was evaluated. Samples were diluted prior to assay as directed in the Sample Preparation section.

Sample Type	Average % Recovery	Range
Serum (n=5)	99	95-103
EDTA plasma (n=4)	86	83-89

Typical

These standard curves are provided for demonstration only. A standard curve should be generated for each set of samples assayed.



pg/ml	OD1	OD2	Average	Corrected
5000	2.152	2.204	2.178	2.065
2500	1.796	1.735	1.766	1.653
1250	1.182	1.205	1.194	1.081
625	0.765	0.798	0.782	0.669
312.5	0.453	0.468	0.461	0.348
156.25	0.328	0.331	0.330	0.217
78.125	0.251	0.240	0.246	0.133
0	0.115	0.110	0.113	?

Msds

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