



# Chemokine Detection ELISAs



Chemokines, 8 to 12 kDa proteins, are a sub-class of the chemokine family. They are classified into four highly conserved groups, sharing 20 to 70 percent of their amino acid sequences. The alpha and beta-chemokines, which contain four cysteines, are the two major families. Among alpha chemokines, one amino acid separates the first two cysteine residues (CXC), whereas in the beta chemokines, the first two cysteine residues are adjacent to each other (CC). There are two minor chemokine groups, one which only has two cysteines (C) and the other which has the first two cysteine residues separated by three amino acids (CXXXC) (1, 2).

Chemokines induce inflammatory cell migration and activation by binding to specific G-protein-coupled cell-surface receptors expressed on different types of leukocytes. The alpha chemokines specifically attract neutrophils, but do not act on lymphocytes. Conversely, beta chemokines do not act on neutrophils, but selectively attract and activate monocytes and lymphocytes. In fact, chemokine signaling attracts and accumulates leukocytes in injured or damaged tissues, initiating both acute and chronic inflammatory responses. Therefore, elevated chemokine levels are observed in many inflammatory diseases (3-5). Furthermore, in malignant cancers, chemokines play roles both in inducing both of immune-cell infiltration, as well as in cancer-cell proliferation (6).

Chondrex, Inc. provides chemokine detection ELISA kits to study the complicated pathological roles of chemokines in systemic inflammatory reactions in many inflammatory diseases and cancer.

Chemokine	Mouse Kit	Human Kit	Price
CCL2	6721 (Coming soon!)	6821	\$299.00
CCL5	6722	6822	\$299.00
CCL25	6723	6823	(Coming soon!)
CCL28	6724	6824	(Coming soon!)
CXCL1	6725	6825 (Coming soon!)	\$299.00
CXCL12	6726	6826	(Coming soon!)
CXCL14	6727	6827	(Coming soon!)
CXCL17	6728	6828	(Coming soon!)

Don't see the chemokine ELISA kit you are looking for? Let us know what other chemokines you are interested in by emailing us at [support@chondrex.com](mailto:support@chondrex.com).

## References

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