

Anti-CXCL10 [CC21R3P1_F1 (CC_F1)] Bulk Size Ab03437-10.3-BT

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

Isotype and Format: Human IgG1, Fc Silent™, Lambda

Clone Number: CC21R3P1_F1 (CC_F1)

Alternative Name(s) of Target: IP-10; INP10; SCYB10; Gamma-IP10; C-X-C motif chemokine 10; 10 kDa interferon gamma-induced protein; Small-inducible cytokine B10; interferon-inducible protein 10

UniProt Accession Number of Target Protein: P02778

Published Application(s): functional assay, therapeutic, ELISA

Published Species Reactivity: Human

Immunogen: The original antibody was isolated from a human scFv phage display library by panning against human CXCL10 or IP-10. Later on the scFv was reformatted to whole IgG1.

Specificity: This antibody binds human CXCL10. This pro-inflammatory cytokine is involved in a wide variety of processes such as chemotaxis, differentiation, and activation of peripheral immune cells, regulation of cell growth, apoptosis and modulation of angiostatic effects. This protein plays an important role during viral infections by stimulating the activation and migration of immune cells to the infected sites. Binding of CXCL10 to the CXCR3 receptor activates G protein-mediated signaling and results in downstream activation of phospholipase C-dependent pathway, an increase in intracellular calcium production and actin reorganization.

Application Notes: The binding characterization of this antibody was done using ELISA. The binding affinity of this antibody towards human CXCL10 was determined using BIACORE and was found to be $K_d = 9.2$ nM. The neutralizing potential of the IgG version of this antibody on hCXCL10-induced calcium flux or cell chemotaxis was evaluated using the cell-based assays. This antibody was reported to inhibit the activity of both recombinant and native hCXCL10 in a dose-dependent manner. CXCL10 is able to oligomerize and bind to glycosaminoglycans (GAG) expressed at surface of cells such as endothelial cells. This antibody was capable of binding human CXCL10 immobilized on glycosaminoglycan (US7786268).

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 1 mg Purified antibody in bulk size.

Purification: Protein A affinity purified

Supplied In: PBS only.

Storage Recommendation: Store at 4°C for up to 3 months. Note, this antibody is provided without added preservatives, it is therefore recommended this antibody be handled under sterile conditions. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note – This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.