

Anti-CXCL10 [10E] Standard Size Ab03436-1.1

This chimeric mouse antibody was made using the variable domain sequences of the original Human IgG1 format for improved compatibility with existing reagents assays and techniques.

Isotype and Format: Mouse IgG1, Lambda

Clone Number: 10E

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 library by panning against his tagged human CXCL10. 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 angiostatin 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 affinity of this antibody to rat CXCL10 was confirmed using ELISA. The IgG version of this antibody binds rat CXCL10 with a binding affinity of $K_d = 7$ pM. This antibody in combination with anti-TNF alpha antibody Humira was used in the generation of a bispecific antibody targeting CXCL10 and TNF-alpha. This antibody can be used in the study relating to treatment of arthritis (KR1020130121601).

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

Note on publication:

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In:

PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. 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.