SIGMA CHEMICAL COMPANY

Anti-Human I-309
Developed in Goat
IgG Fraction of Antiserum

Product No. I 7391

Anti-Human I-309 is developed in goat using recombinant human I-309, expressed in *E. coli*, as immunogen. The product is purified by Protein G affinity chromatography. Goat Anti-Human I-309 is provided lyophilized from phosphate buffered saline, to which no preservatives are added.

Description

I-309 is a member of the C-C, or β chemokine class. Other chemokines in this group include MIP-1α, MIP-1β, RANTES, MCP-1/2/3/4, mouse JE, mouse MARC, eotaxin, HCC-1 and C10. These chemokines act primarily as chemoattractants and activate monocytes, dendritic cells, T lymphocytes, natural killer cells, B lymphocytes, basophils and eosinophils. I-309 was originally identified by subtractive hybridization as a transcript that was present in a γ/δ T cell line but not in EBV-transformed B cells. I-309 is a chemoattractant for monocytes, but not for neutrophils. IP-10 is an approximately 8.5 kD polypeptide of 73 amino acids. The precursor form of human I-309 consists of 96 amino acids. To generate the mature I-309, the precursor cleaves its hydrophobic signal peptide. Human I-309 is thought to be a homologue of the mouse TCA3, and shows 42% amino acid homology to mouse TCA3.

Performance

Anti-Human I-309 may be used in immunoblotting and ELISA. By ELISA, the antibody shows no cross-reactivity with other cytokines tested.*

Product Information

Mass/vial:	1 mg
Immunogen:	Recombinant, Human I-309
Host Animal:	Goat
Formulation:	Lyophilized from PBS without additives.
Endotoxin:	<10 ng/vial by LAL method
Direct ELISA:	0.5 - 1 µg/ml antibody detects <0.3 ng/well of recombinant, human I-309.
Indirect Immunoblotting:	1 - 2 µg/ml antibody detects 20 and 5 ng recombinant, human I-309/lane under reducing and non-reducing conditions, respectively.
Sterility:	0.2 µm-filtered, aseptic fill

Reconstitution and Use

To one vial of lyophilized powder, add 1 ml of 0.2 µm-filtered PBS to produce a 1 mg/ml stock solution of Anti-Human I-309. If aseptic technique is used, no further filtration should be needed for use in cell culture environments.

Storage

Prior to reconstitution, store at –20°C. Reconstituted product may be stored at 2-8°C for up to one month. For prolonged storage, freeze in working aliquots at –20°C. Avoid repeated freezing and thawing.

References

1. Miller, M.D., and Krangel, M.S., Proc. Natl. Acad. Sci. USA, **89**, 2950 (1992).
2. Miller, M.D., et al., J. Immunol., **145**, 2737 (1990).

* rhANG, rhAR, rhβ-Cellulin, rhβ-NGF, rmC10, rhCNTF, rrCNTF, rhEGF, rhENA-78, rhEPO, rhFGFa, rhFGFb, rhFGF-3, rhFGF-4, rhFGF-5, rhFGF-6, rhFGF-7, rhG-CSF, rhGDNF, rhGM-CSF Rα, rmGM-CSF, rhGROα, rhGROβ, rhGROγ, rhHB-EGF, rhHGF, rhIFN-γ, rhIGF-I, rhIGF-I RI, rhIGF-II, rhIL-1α, rhIL-1 RI, rhIL-1 RII, rmIL-1α, rhIL-1β, rmIL-1β, rhIL-1 ra, rhIL-2, rhIL-2 sRα, rhIL-2 sRβ, rhIL-3, rhIL-3 sRα, rmIL-3, rhIL-4, rhIL-4 sR, rmIL-4, rhIL-5, rhIL-5 sRα, rhIL-5 sRβ, rmIL-5, rhIL-6, rhIL-6 sR, rmIL-6, rhIL-7, rhIL-7 R, rmIL-7, rhIL-8, rhIL-9, rmIL-9, rhIL-10, rmIL-10, rhIL-11, rhIL-12, rhIL-13, rmIL-13, rhIP-10, rmJE, rhLIF, rhLIF R, rmLIF, rhM-CSF, rmM-CSF, rhMCP-1, rhMCP-1 R, rhMidkine, rhMIP-1α, rmMIP-1α, rhMIP-1β, rmMIP-1β, rhNT-4, rhOSM, rhPD-ECGF, hPDGF, pPDGF, rhPDGF-AA, rhPDGF-AB, rhPDGF-BB, rhPlGF, rhPTN, rhRANTES, rhSCF, rmSCF, rhsgp130, rhSLPI, hTfR, rhTGF-α, rhTGF-β1, rhTGF-β2, rhTGF-β3, raTGF-β5, rhLAP (TGF-β1), rhLatent TGF-β1, rhTGF-β sRII, rhTGF-β sRIII, rhTNF-α, rmTNF-α, rhTNF-β, rhsTNF RI, rhsTNF RII, rhVEGF.