

Anti-IL-10 [9D7] Standard Size Ab00959-13.12

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

Isotype and Format: Human IgG4-S228P, Kappa

Clone Number: 9D7

Alternative Name(s) of Target: Human cytokine synthesis inhibitory factor;GVHDS; IL10; Interleukin 10; Interleukin-10; IL10A; TGIF; JES3-9D7; JES3 9D7;

UniProt Accession Number of Target Protein: P22301

Published Application(s): crystallisation, IP, Neutralisation, ELISA, IF, IHC

Published Species Reactivity: Human

Immunogen: Rats are immunised with synthetic oligopeptide (containing an N-terminal cysteine)-carrier protein conjugates. IL-10 was conjugated to JES3. The mouse non-secreting myeloma fusion partner P3X63-AG8.653, is fused to immunised rat splenocytes to produce heterohybridomas secreting rat antibody. Bioassays were used to identify neutralising mAbs, and immunochemical screens were used to identify mAbs that bind the cytokine.

Specificity: The six 9D7 Fab CDR loops interact with a discontinuous IL-10M1 epitope comprised of residues 71-83 and 125-137. 9D7 non-competitively antagonises IL-10R1 binding.

Application Notes: 9D7 has been used in ELISA experiments in order to specifically detect IL-10 and show higher circulating levels of IL-10 in patients with acute EBV-induced mononucleosis (Taga 1995). Further, 9D7 has been used to immunoprecipitate IL-10 from the supernatants of melanoma cells in order to study the production of IL-10 by melanoma cells (Qiyuan Chen 1994). A fab fragment derived from 9D7 has been used to study the noncompetitive antibody neutralisation of IL-10 by x-ray crystallography (Josephson 2002).

Antibody First Published in: Abrams et al. Strategies of Anti-Cytokine Monoclonal Antibody Development: Immunoassay of IL-10 and IL-5 in Clinical Samples Immunol Rev. 1992 Jun;127:5-24
[PMID:1387110](#)

Note on publication: Describes the generation of antibodies against cytokines.

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.