

Anti-IL-6 [61H7] Bulk Size Ab02027-23.0-BT

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

Isotype and Format: Rabbit IgG, Lambda

Clone Number: 61H7

Alternative Name(s) of Target: IL6; IFNB2; BSF-2; CDF; Interleukin-6; IL-6; B-cell stimulatory factor 2; CTL differentiation factor; Hybridoma growth factor; Interferon beta-2; IFN-beta-2

UniProt Accession Number of Target Protein: P05231

Published Application(s): ELISA

Published Species Reactivity: Human

Immunogen: The original antibody was generated by immunizations of Llama glama with recombinant IL-6 followed by construction of phage display library, selection, screening and purification.

Specificity: This antibody recognizes and binds interleukin-6 on the top of the four-helix bundle near the N and C termini. Here the VL domain sterically interferes with the C-terminal domain of IL-6R (residues 195-295). The overlap of the 61H7 epitope and the site I surface concentrates around a cavity occupied by both the HCDR3 loop of 61H7 and the IL-6R molecule.

Application Notes: This antibody is recommended for identification of IL-6 in the sample. The ability of this antibody to compete with biotinylated IL-6 for binding to captured IL-6R was investigated using competitive ELISA. The in-vitro potency of the antibody was determined using a cell-based neutralizing bioassay using the B9 and 7TD1 cell line, which require IL-6 for survival and proliferation and respond to very low concentration of IL-6 (PMID: 27129274).

Antibody First Published in: Blanchetot et al. Structural Mimicry of Receptor Interaction by Antagonistic Interleukin-6 (IL-6) Antibodies. J Biol Chem. (2016); 291(26); 13846-54. [PMID:27129274](#)

Note on publication: Describes the crystal structure and epitope characterization of the antibody.

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.