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IL6
Mouse Anti-Human Interleukin-6 (Clone UC-6) mAb

Catalog No.	CMI262	**Quantity:**	0.5 mg

Alternate Names: IL-6, B-cell stimulatory factor 2, BSF-2, CTL differentiation factor, CDF, Hybridoma growth factor, Interferon beta-2

Description: IL-6 (a glycosylated protein of 21–28 kDa) is produced by a broad spectrum of cells in response to a wide variety of stimuli. The cytokine is produced by innate immune cells (e. g., macrophages, dendritic cells, and mast cells), B cells, by some CD4 effector T helper (Th) cells and also by a variety of non-leukocyte cells (e.g. endothelial cells, fibroblasts, astrocytes, epithelial cells). A common feature of many of the stimuli that activate IL-6 is that they represent tissue damage or stress (e.g., UV, irradiation, reactive oxygen species, microbial products, viruses, or other pro-inflammatory cytokines). Down regulation of IL-6 production plays critical roles in the pathogenesis of several disease processes, including human myeloma and several autoimmune diseases, such as rheumatoid arthritis, systemic-onset juvenile chronic arthritis (JCA), osteoporosis, and psoriasis.

UniProt ID: P05231

Gene ID: 3569

Source: Produced *in vitro* using serum free medium.

Specificity: Binds with similar affinity to native and recombinant human IL-6.
Shows full cross-reactivity with IL-6 from several Old World monkeys.

Isotype: Mouse IgG_1

Clone: UC-6

Quantitation: $E^{0.1\%}_{280\ nm}$ = 1.4 for a 1 mg/ml solution.

Formulation: Lyophilized from sterile-filtered PBS containing 125 mM Trehalose

Purification: Ion exchange chromatography.

Reconstitution: **Centrifuge vial briefly before opening.** Reconstitute with 0.5 ml sterile distilled water, containing 0.02% sodium azide to prevent bacterial growth (recommended).
Precaution: Sodium azide is a poisonous and hazardous substance which should be handled by trained staff only.

Applications: *In vitro* neutralization
ELISA

Storage & Stability: Lyophilized product is stable for at least one year at 2-8°C. After reconstitution, the contents can be safely stored at 2-8°C for one month or for one year in working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

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