IL-6 Antibody MP5-20F3 / IL6 Monoclonal Antibody [clone MP5-20F3] (V2346)

Catalog No.	Formulation	Size
V2346-100UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	100 ug
V2346-20UG	0.2 mg/ml in 1X PBS with 0.1 mg/ml BSA (US sourced) and 0.05% sodium azide	20 ug
V2346SAF-100UG	1 mg/ml in 1X PBS; BSA free, sodium azide free	100 ug

Citations (10)

Bulk quote request

Species Reactivity	Mouse
Format	Purified
Host	Rat
Clonality	Monoclonal (rat origin)
Isotype	Rat IgG1, kappa
Clone Name	MP5-20F3
Purity	Protein G purified IL-6 antibody
Buffer	1X PBS, pH 7.4
Gene ID	16193
Localization	Cytoplasmic and extracellular (secreted)
Applications	Flow cytometry: 1-2ug/10^6 cells Immunofluorescence: 1-3ug/ml
Limitations	This IL-6 Antibody MP5-20F3 / IL6 Monoclonal Antibody is available for research use only.



Description

IL-6 antibody MP5-20F3 is a monoclonal antibody that detects interleukin 6, a multifunctional cytokine involved in immune regulation, inflammation, and hematopoiesis. IL-6 is produced by a wide range of cells, including monocytes, fibroblasts, endothelial cells, and T lymphocytes, in response to infections, injuries, or stress. It plays central roles in acute phase responses, B cell maturation, and T cell differentiation. Dysregulated IL-6 signaling is associated with chronic inflammatory diseases, autoimmune disorders, and cancer. NSJ Bioreagents provides IL-6 antibody MP5-20F3 as a reliable reagent for studying cytokine biology and disease pathogenesis.

IL-6 antibody clone MP5-20F3 produces strong cytoplasmic staining in activated immune and stromal cells. In immunology research, this antibody is used to investigate IL-6 driven pathways that shape adaptive immune responses. IL-6 promotes B cell maturation into antibody-producing plasma cells and influences the balance of T helper cell subsets, including the differentiation of Th17 cells, which are implicated in autoimmunity.

In inflammatory disease studies, IL-6 antibody MP5-20F3 has been widely applied to understand how sustained IL-6 production contributes to conditions such as rheumatoid arthritis, Crohn disease, and systemic lupus erythematosus. Elevated IL-6 levels correlate with disease severity, making this antibody valuable for identifying and tracking cytokine expression in tissues and experimental models.

In oncology, IL-6 antibody MP5-20F3 has been employed to explore how IL-6 promotes tumor progression. IL-6 supports tumor growth by stimulating angiogenesis, enhancing survival signaling, and driving chronic inflammation in the tumor microenvironment. Detection of IL-6 has been particularly important in cancers such as multiple myeloma and lung carcinoma, where IL-6 contributes to therapy resistance and poor prognosis.

IL-6 antibody clone MP5-20F3 is also useful in metabolic and neurobiology research. Chronic IL-6 signaling has been linked to insulin resistance, obesity, and neuroinflammation, underscoring its broad impact on human disease.

This antibody has been validated in tissue-based and cell-based studies, consistently producing reproducible results. It is widely cited across immunology, oncology, and inflammation-related research. Alternate names include interleukin 6 antibody, B cell differentiation factor antibody, and hybridoma growth factor antibody.

For additional validated antibodies targeting this important inflammatory cytokine, visit our IL6 Antibody / Pro-Inflammatory Cytokine Marker page featuring complementary reagents for studies of cytokine signaling, immune activation, and inflammation-associated disease processes.

Application Notes

The concentration stated for each application is a general starting point. Variations in protocols, secondaries and substrates may require the IL-6 Antibody MP5-20F3 / IL6 Monoclonal Antibody to be titered up or down for optimal performance.

Immunogen

Recombinant mouse IL-6 protein was used as the immunogen for this IL-6 Antibody MP5-20F3.

Storage

Store the IL-6 Antibody MP5-20F3 at 2-8oC (with azide) or aliquot and store at -20oC or colder (without azide).

Alternate Names

IL6 antibody, IL-6 antibody, interleukin 6 antibody, interleukin-6 antibody, BSF-2 antibody, B cell stimulatory factor 2 antibody, B-cell stimulatory factor 2 antibody, interferon beta-2 antibody, IFNB2 antibody, hepatocyte-stimulating factor antibody, HSF antibody, hybridoma growth factor antibody, hybridoma-plasmacytoma growth factor antibody, B cell differentiation factor antibody, cytotoxic T cell differentiation factor antibody

References (6)

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