

IVMB0219

Product Information

Product SKU: IVMB0219

Clone: Hu137

Target: IL-6

Size: 100 mg, 25 mg, 50 mg, 5.0 mg, 1.0 mg

Isotype: Human IgG1κ

Additional Information

Reactivity: Human

Host Species: Human

Antibody Type: Biosimilar Recombinant Human Monoclonal Antibody

Expression Host: HEK-293 Cells

Immunogen Information

Background: IL-6 and its signaling pathway play a part in immune response regulation, inflammation, and hematopoiesis.² Sarilumab is a research-grade recombinant human monoclonal IL-6 receptor antagonist. It specifically binds to both the transmembrane and soluble forms of the IL-6 receptor, thus inhibiting IL-6-mediated cis and trans-signaling in a dose-dependent manner.¹ Therapeutic Sarilumab, also known by the trade name Kevzara, is currently used to treat Rheumatoid Arthritis¹, however, as of March 2020, The Feinstein Institute of Northwell Health publicized a study on "a human antibody that may prevent the activity" of IL-6 for the treatment of COVID-19.³ Anti-Human IL-6 (Sarilumab) utilizes the same variable regions from the therapeutic antibody Sarilumab making it ideal for research projects.

Endotoxin Level: < 1.0 EU/mg as determined by the LAL method

Applications: B

Synonyms: Interleukin-6, CDF; HGF; HSF; BSF2; BSF-2; IFNB2; IFN-beta-2

Antigen Distribution: IL-6R is ubiquitously expressed.

Immunogen: Human IL-6R alpha

Formulation: This biosimilar antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (150 mM NaCl) PBS pH 7.2 - 7.4 with no carrier protein, potassium, calcium or preservatives added. Due to inherent biochemical properties of antibodies, certain

products may be prone to precipitation over time. Precipitation may be removed by aseptic centrifugation and/or filtration.

Specificity:

This non-therapeutic antibody uses the same variable region sequence as the therapeutic antibody Sarilumab. Sarilumab binds to the transmembrane and soluble forms of the IL-6 receptor. This product is for research use only.

Product Preparation:

Recombinant biosimilar antibodies are manufactured in an animal free facility using only in vitro protein free cell culture techniques and are purified by a multi-step process including the use of protein A or G to assure extremely low levels of endotoxins, leachable protein A or aggregates.

Storage & Handling:

Functional grade biosimilar antibodies may be stored sterile as received at 2-8°C for up to one month. For longer term storage, aseptically aliquot in working volumes without diluting and store at -80°C. Avoid Repeated Freeze Thaw Cycles.