C054P: Muromonab Biosimilar, Anti-human CD3 Antibody

Catalog No.: C054P | **Product Name:** Muromonab Biosimilar, CD3 Monoclonal Antibody

Muromonab Biosimilar, CD3 Monoclonal Antibody. The research grade Muromonab biosimilar protein is for research use only (RUO). Recombinant mouse IgG2a isotype controls are available. Condition of sample preparation and optimal sample dilution should be determined experimentally by the investigator.

PRODUCT SPECIFICATIONS

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Product Name	Muromonab Biosimilar, CD3 Monoclonal Antibody
Supplier Name	Syd Labs, Inc.
Brand Name	Syd Labs
Synonyms	cluster of differentiation 3, CD3D, CD3E, CD3G
Summary	Recombinant mouse IgG2a Monoclonal Antibody.
Source/Host	The anti-human CD3 monoclonal antibody muromonab biosimilar was produced in mammalian cells.
Specificity/Sensitivity	The in vivo grade muromonab biosimilar specifically binds to the human T cell receptor CD3.
Applications	ELISA, neutralization, functional assays such as bioanalytical PK and ADA assays, and those assays for studying biological pathways affected by muromonab.
Form Of Antibody	0.2 μM filtered solution, pH 7.4, no stabilizers or preservatives.
Endotoxin	< 1 EU per 1 mg of the protein by the LAL method.
Purity	>95% by SDS-PAGE under reducing conditions and HPLC.
Shipping	The research grade muromonab biosimilar is shipped with ice pack. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month from date of receipt, 2 to 8°C as supplied.
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REFERENCES & BACKGROUND

Muromonab Biosimilar uses the same protein sequences as the therapeutic antibody muromonab. Muromonab is a monoclonal anti-CD3 antibody used as immunosuppressive therapy in kidney, heart, and liver transplant patients.

Murine monoclonal antibody specific to CD3 T-cell lymphocyte antigens. More specifically it is a purified murine (mouse) monoclonal antibody, directed against the CD3 (T3) receptor on the surface of human T-cells (T-lymphocytes) cultured using the murine ascites method. Muromonab is 93% monomeric immune globulin G type 2a (IgG2a).

Muromonab binds to the T-cell surface glycoprotein CD3 epsilon chain. It appears to kill CD-3 positive cells by inducing Fc mediated apoptosis, antibody mediated cytotoxicity and complement-dependent cytotoxicity.