

Human CD52 (Alemtuzumab) Antibody

Purified No Carrier Protein

Biosimilar Recombinant Human Monoclonal Antibody

Product Information

Product No.: LT200
Clone: Campath-1H
RRID: AB_2893935
Isotype: Human IgG1κ
Storage: Sterile 2-8°C

Product Description

Specificity:

This non-therapeutic biosimilar antibody uses the same variable region sequence as the therapeutic antibody Alemtuzumab. Clone Campath-1H recognizes human CD52. This product is for research use only.

Antigen Distribution:

CD52 is primarily expressed on the surface of mature lymphocytes. Additionally, CD52 is present on most lymphoid derived malignancies. However, variable expression on Myeloma cells should be noted.

Background:

Clone Campath-1H is a monoclonal antibody that specifically binds to CD52, a protein present on the surface of mature lymphocytes. However, this protein is not present on the stem cells that generated these lymphocytes. Alemtuzumab is targets and destroys mature lymphocytes containing CD-52, and is used to treat chronic lymphocytic leukemia (CLL) and multiple sclerosis. Anti-Human CD52 (Alemtuzumab) utilizes the same variable regions from the therapeutic antibody Alemtuzumab making it ideal for research projects.

Known Reactivity Species:

Cynomolgus Monkey, Rhesus Monkey, Human

Expression Host:

HEK-293 Cells

Format:

Purified No Carrier Protein

Immunogen:

Human lymphocytes.

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.

Purity

≥95% by SDS Page, ≥95% monomer by analytical SEC

Endotoxin

< 1.0 EU/mg as determined by the LAL method

Storage and Stability

Functional grade preclinical 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 ≤ -70°C.

Avoid Repeated Freeze Thaw Cycles.

Products are for research use only. Not for use in diagnostic or therapeutic procedures.

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.

Pathogen Testing

To protect mouse colonies from infection by pathogens and to assure that experimental preclinical data is not affected by such pathogens, all of Leinco's recombinant biosimilar antibodies are tested and guaranteed to be negative for all pathogens in the IDEXX IMPACT I Mouse Profile.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for Alemtuzumab biosimilar antibody for staining cells in flow cytometry is $\leq 0.25 \mu\text{g}$ per 10^6 cells in a volume of 100 μl . Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

IHC FFPE (Formalin-fixed paraffin-embedded tissue)

IHC FF (Fresh Frozen)

FA

WB

ELISA

Country of Origin

USA