

Human CD7 Antibody

Purified in vivo GOLD™ Functional Grade

Monoclonal Antibody

Product Information

Product No.: C8400
Clone: T3-3A1
RRID: AB_2829867
Isotype: Mouse IgG1 κ
Storage: Sterile 2° to 8°C

Product Description

Specificity:

Clone T3-3A1 recognizes an epitope on human CD7.

Antigen Distribution:

CD7 is expressed on T cells, NK cells, thymocytes, hematopoietic progenitors, some normal B cells, malignant B cells, acute lymphocytic leukemia (ALL) cells, and some acute myeloid leukemia (AML) cells. It is weakly expressed on monocytes.

Background:

CD7 is a 40 kD type I transmembrane glycoprotein and is a member of the Ig superfamily. It plays a vital role in T-cell interactions, in addition to, T-cell/B-cell interaction during early lymphoid development, and has been shown to interact with PIK3R1. Functional studies indicate that crosslinking of the CD7 can stimulate transmembrane calcium flux in T cells. Lack of CD7 expression can help to diagnose T-cell lymphoproliferative disorders, such as mycosis fungoides/Sezary syndrome and adult T-cell leukemia/lymphoma.

Known Reactivity Species:

Human

Formulation

This monoclonal 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% monomer by analytical SEC, >95% by SDS Page

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° to 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.

Product Preparation

Functional grade preclinical antibodies are manufactured in an animal free facility using in vitro 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.

Applications

Applications and Recommended Usage (Quality Tested By Leinco):

FC The suggested concentration for this T3-3A1 antibody for staining cells in flow cytometry is $\leq 0.5 - 1 \mu\text{g}$ per 10^6 cells in a volume of 0.1 ml or 0.1 ml of whole blood. Titration of the reagent is recommended for optimal performance for each application.

Other Applications Reported in Literature:

IF Staining: The suggested concentration for this T3-3A1 antibody for use in Immunofluorescence Staining is $\leq 0.5 - 1.0 \mu\text{g/ml}$

Country of Origin

USA