

Bulk Anti-Human CD7 (T3-3A1) Antibody

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Product Benefits:

ichorbio's bulk anti-human CD7 antibody (T3-3A1) is manufactured in a cGMP compliant, ISO Quality Standard 9001:2015 facility. ichorbio's low endotoxin antibodies have half the endotoxin of comparable antibodies from [Bio X Cell](#) at less than 1.0 EU/mg. If ichorbio's low endotoxin antibodies are not low enough we also offer ultra low endotoxin antibodies which have even less endotoxin (<0.5EU/mg) at an even higher purity (98% versus 95%). ichorbio: the best antibodies for *in vivo* research.

Target:

CD7

Clone:

T3-3A1

Isotype:

Mouse IgG1 ?

Uniprot:

[P50283](#)

Host:

Mouse

Species Reactivity:

Mouse

Specificity:

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

Purification Method:

This monoclonal antibody was purified using multi-step affinity chromatography methods such as Protein A or G depending on the species and isotype.

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.

Concentration:

1.0 mg/ml

Formulation:

This monoclonal antibody is aseptically packaged and formulated in 0.01 M phosphate buffered saline (PBS) pH 7.2 - 7.4, 150 mM NaCl with no carrier protein, potassium or preservatives added. BSA and azide free

Purity:

>95% by SDS-PAGE and HPLC

>98% by SDS-PAGE and HPLC

Endotoxin:

? 1.0 EU/mg as determined by the LAL method

? 0.75 EU/mg as determined by the LAL method

Aggregation:

Aggregation level ? 5%

Aggregation level ? 1%

IMPACT Pathogen Test:

We use the IMPACT test generated by IDEXX Laboratories to guarantee our Ultra Low Endotoxin antibodies are pathogen free. Our mouse antibodies are tested for: Mycoplasma spp. Mycoplasma pulmonis Sendai virus Mouse hepatitis virus Pneumonia virus of mice Minute virus of mice Mouse parvovirus (MPV1-5) Theiler's murine encephalomyelitis virus Murine norovirus Reovirus 3 Mouse rotavirus Ectromelia virus Lymphocytic choriomeningitis virus Polyoma virus Lactate dehydrogenase-elevating virus Mouse adenovirus (MAD1, MAD2) Mouse cytomegalovirus K virus Mouse thymic virus Hantaan virus Corynebacterium bovis Corynebacterium spp. (HAC2)

Storage:



This antibody is stable for at least 4 weeks when stored at 2-8°C. For long term storage, aliquot in working volumes without diluting and store at – 20°C or -80°C. Avoid repeated freeze thaw cycles.

Applications:

Flow cytometry, Immunofluorescence

Application Notes:

Each investigator should determine their own optimal working dilution for specific applications.

Use:

Products are for research use only.