PRODUCT INFORMATION



CD4 mAb (GK1.5), InVivoPure+

Endotoxin level ≤ 1 EU/mg

Description:

The CD4 monoclonal antibody (clone GK 1.5) was purified from supernatant of TIB-207[™] GK1.5 from the ATCC.*

The GK1.5 monoclonal antibody reacts with the mouse CD4 molecule, a 55 kDa cell surface receptor expressed by a majority of thymocytes, subpopulation of mature T cells and dendritic cells. CD4 binds to MHC class II on the surface of antigen presenting cells and plays an important role both in T cell development and in optimal functioning of mature T cells. In T cells, CD4 associates with protein tyrosine kinase p56lck through its cytoplasmic tail. Binding of GK1.5 is blocked using the RM4-5 antibody by competing with GK1.5 for the same binding site on the CD4 molecule. GK1.5 significantly enhanced the percentages of peripheral CD4+CD25+Foxp3+Treg cells in CD4+T cells in mice without altering their immunosuppressive function [1].

The antibody profoundly blocks antigen specific murine class II MHC antigen reactive helper T lymphocyte lines [2].

This antibody is produced exclusively under serum-free conditions from hybridoma and purified with Protein-A or Protein-G affinity chromatography.

Product-ID: AK3602P+

Clone: GK1.5

Immunogen: Animals were immunized with the cloned cytotoxic T

lymphocyte lines V4 and 243/2.5. L3T4 is expressed on mouse helper/inducer T cells and is analogous to the human Leu-3/T4

molecule.

Host: Rat

Clonality: Monoclonal

Isotype: IgG2b κ

Formulation: Clear Liquid, PBS, pH 7.4, 0.2 μm sterile filtered

Concentration: $\geq 1 \text{ mg/mL}$

Purity: ≥ 95 % (CGE, reducing conditions)

≤ 5 % aggregates (analytical SEC)

Endotoxin: ≤ 1 EU/mg (LAL test)

Storage: 2 - 8 °C

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The product is for research use only and not for use in diagnostic or therapeutic procedures.

*The ATCC trademark and trade name and any and all ATCC catalog numbers are trademarks of the American Type Culture Collection.

InVivo BioTech Services GmbH is certified to ISO 9001 and ISO 13485.

Literature:

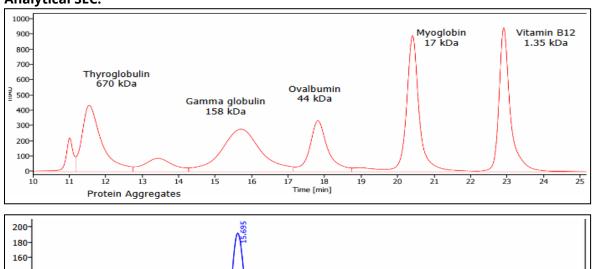
- [1] Yi H, Zhen Y, Zeng C, Zhang L, Zhao Y. Depleting anti-CD4 monoclonal antibody (GK1.5) treatment: influence on regulatory CD4+CD25+Foxp3+ T cells in mice. Transplantation. 2008 Apr 27;85(8):1167-74. doi: 10.1097/TP.0b013e31816a1242. PMID: 18431238.
- [2] Wilde DB, Marrack P, Kappler J, Dialynas DP, Fitch FW. Evidence implicating L3T4 in class II MHC antigen reactivity; monoclonal antibody GK1.5 (anti-L3T4a) blocks class II MHC antigen-specific proliferation, release of lymphokines, and binding by cloned murine helper T lymphocyte lines. J Immunol. 1983 Nov;131(5):2178-83. PMID: 6195255.

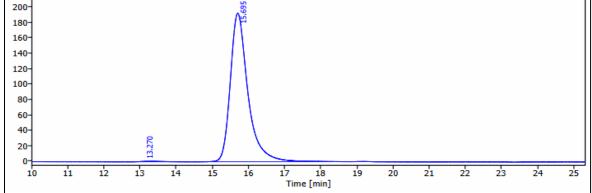
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CD4 mAb (GK 1.5), InVivoPure+ — Supplementary Data

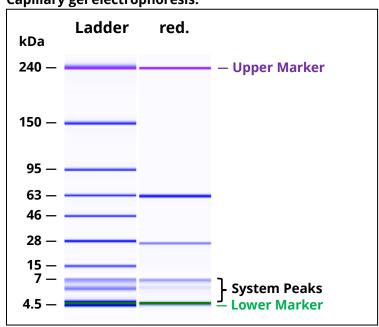
Analytical SEC:





Analytical SEC of purified protein (blue) in comparison with gel filtration standard (red).

Capillary gel electrophoresis:



CGE of the purified protein under reducing (red.) conditions.