HLA-DQ mAb (SPV-L3), InVivoPure+

Endotoxin level ≤ 1 EU/mg

Description:

HLA-DQ monoclonal antibody (clone SPV-L3) is a mouse IgG2aκ antibody that specifically recognizes the human HLA-DQ molecule, a class II major histocompatibility complex (MHC) protein. HLA-DQ is a heterodimer composed of an alpha (DQA1) and beta (DQB1) chain, both anchored in the membrane of antigen-presenting cells (APCs) such as B cells, dendritic cells, and macrophages. [1]

SPV-L3 was raised against a T4-positive cytotoxic T lymphocyte clone (HG-38) and binds a monomorphic determinant of HLA-DQ. It is widely used in flow cytometry, immunocytochemistry, immunofluorescence, and immunohistochemistry, with validated reactivity in human and porcine samples.

Importantly, SPV-L3 has been shown to block cytotoxic activity of T4-positive CTL clones, making it useful in functional assays and immune regulation studies.

This antibody is often used in transplantation research, autoimmune disease studies, and immunopeptidomics, where HLA-DQ plays a role in antigen presentation and immune recognition.

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

Product-ID:	**AK3655P+**
Clone:	SPV-L3
Immunogen:	T4-positive CTL clone HG-38
Host:	Mouse
Clonality:	Monoclonal
Isotype:	Mouse IgG2a, kappa
Formulation:	Clear Liquid, PBS, pH 7.4, 0.2 µm sterile filtered
Concentration:	≥ 1.00 mg/mL
Purity:	≥ 95 % (CGE, reducing conditions)
	≤ 5 % aggregates (analytical SEC)
Endotoxin:	≤ 1 EU/mg (LAL test)
Storage:	2 - 8 °C
Recommended Isotype Control:	Mouse IgG2a κ Isotype Control (AK3399P+)

IVS CS-0155, Rev. 01

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

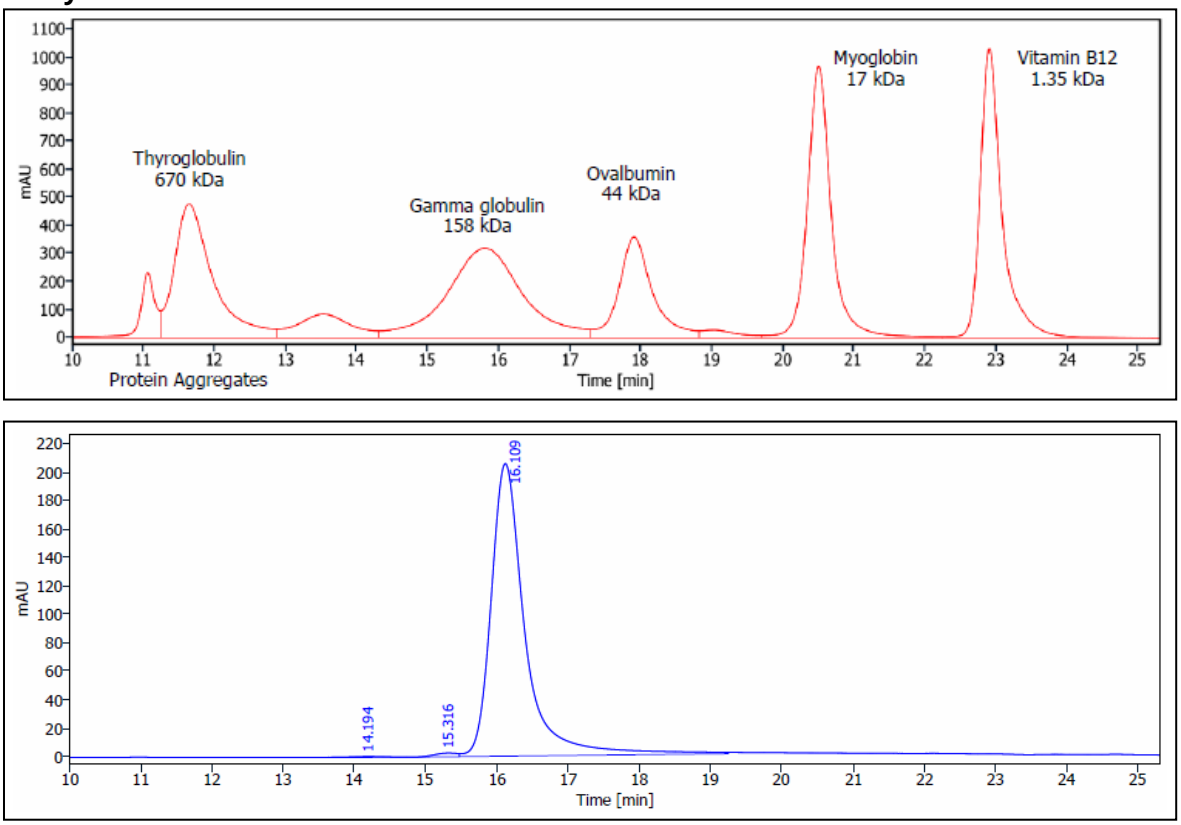
InVivo BioTech Services GmbH is certified to ISO 9001 and ISO 13485.

Literature:

[1] Hartman K, Steiner G, Siegel M, Looney CM, Hickling TP, Bray-French K, Springer S, Marban-Doran C, Ducret A. Expanding the MAPPs Assay to Accommodate MHC-II Pan Receptors for Improved Predictability of Potential T Cell Epitopes. Biology (Basel). 2023 Sep 21;12(9):1265. doi: 10.3390/biology12091265. PMID: 37759665; PMCID: PMC10525474.

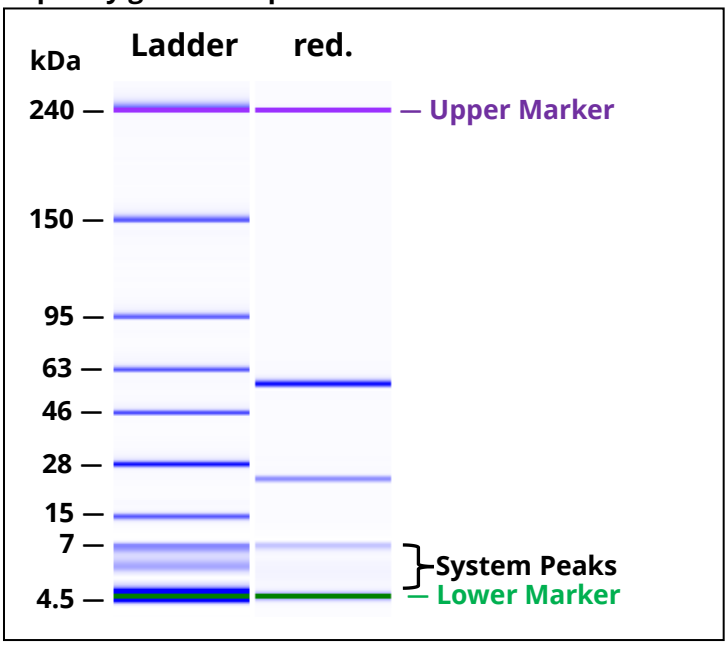
HLA-DQ mAb (SPV-L3), InVivoPure+ — Supplementary Data

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.