HLA-DQ mAb (SPV-L3), InVivoPure

Endotoxin level ≤ 2 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:	≥ 90 % (CGE, reducing conditions)
	≤ 10 % aggregates (analytical SEC)
Endotoxin:	≤ 2 EU/mg (LAL test)
Storage:	2 - 8 °C
Recommended Isotype Control:	Mouse IgG2a κ Isotype Control (AK3399P)

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

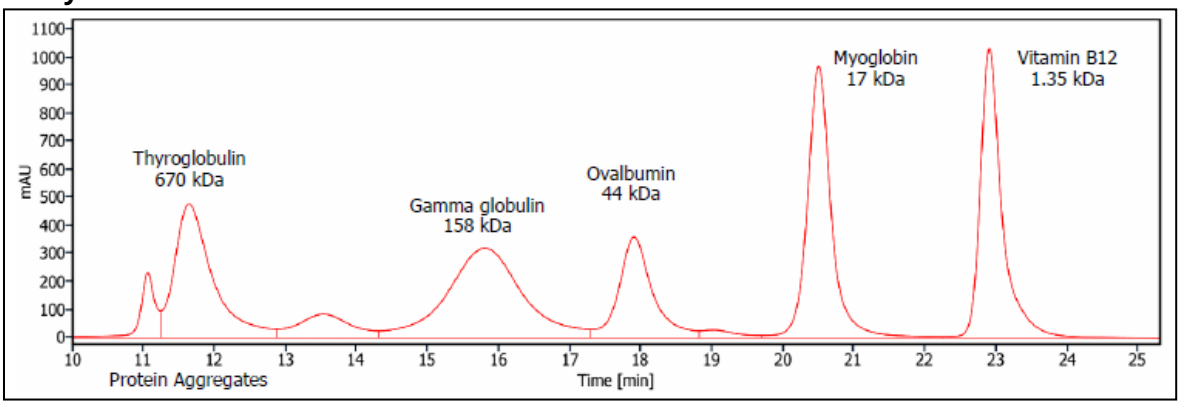
InVivo BioTech Services GmbH is certified to ISO 9001 and ISO 13485.

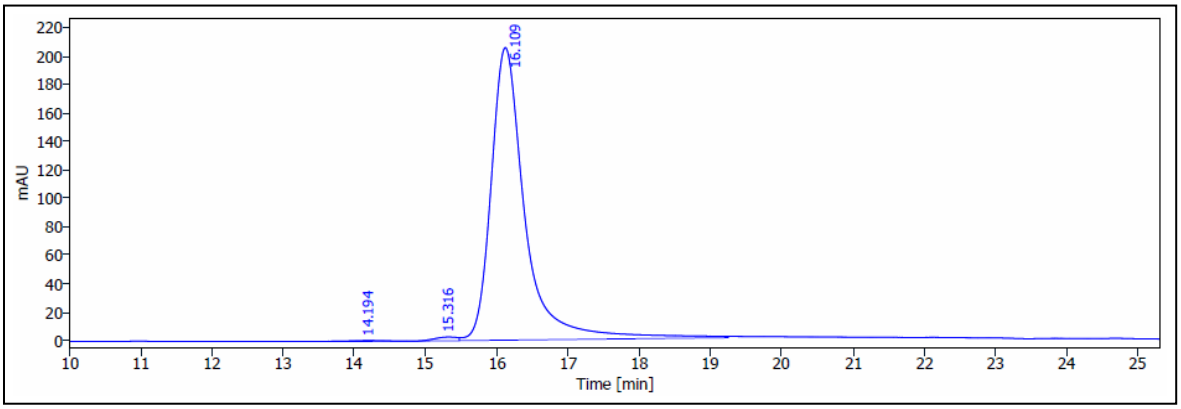
Literature:

[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

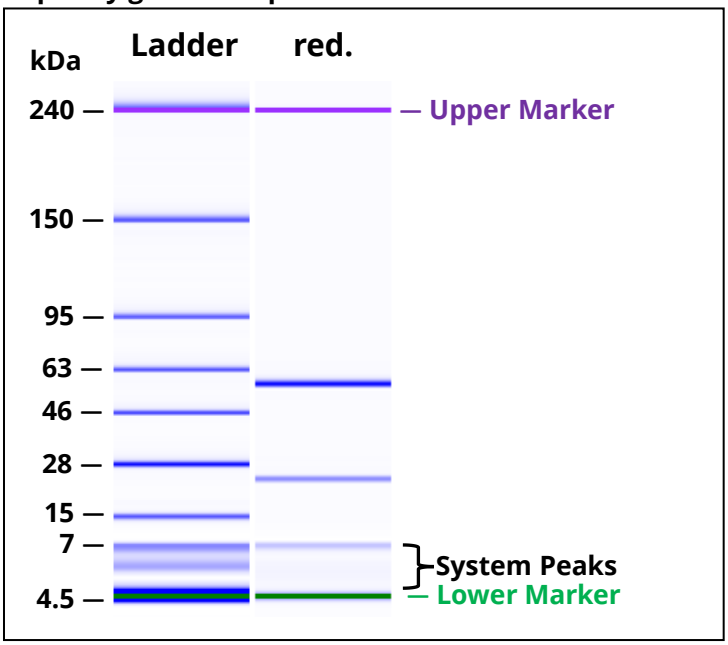
Analytical SEC:





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.