

H-2Kd/H-2Dd mAb (34-1-2S), InVivoPure+

Endotoxin level ≤ 1 EU/mg

Description:

The anti-H2Kd/H-2Dd monoclonal antibody (clone 34-1-2S) was purified from supernatant of HB-79™ 34-1-2S from the ATCC.*

The anti-H2Kd/H-2Dd monoclonal antibody (clone 34-1-2S) is a mouse-derived antibody that targets MHC class I alloantigens, specifically H-2Kd and H-2Dd. These antigens are expressed on the surface of nucleated cells in mice with the H-2Kd/H-2Dd haplotype [1]. The antibody is critical for antigen presentation to T cells expressing CD3/TCR and CD8 proteins [2].

This antibody is known for its cross-reactivity with other MHC class I alloantigens, including those of the H-2Kb, H-2Ks, H-2Kr, H-2Kq, and H-2Kp haplotypes [3]. It is commonly used in flow cytometry for the analysis of mouse splenocytes and other cell types.

This antibody is a valuable tool for researchers studying immune responses by helping to identify and characterize cells based on their MHC class I expression.

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

Product-ID:	AK3642P+
Clone:	34-1-2S
Immunogen:	Animals were immunized with spleen cells from BDF1 mice
Host:	Mouse
Clonality:	Monoclonal
Isotype:	Mouse IgG2a
Formulation:	Clear Liquid, PBS, pH 7.4, 0.2 μ m 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+)

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.**

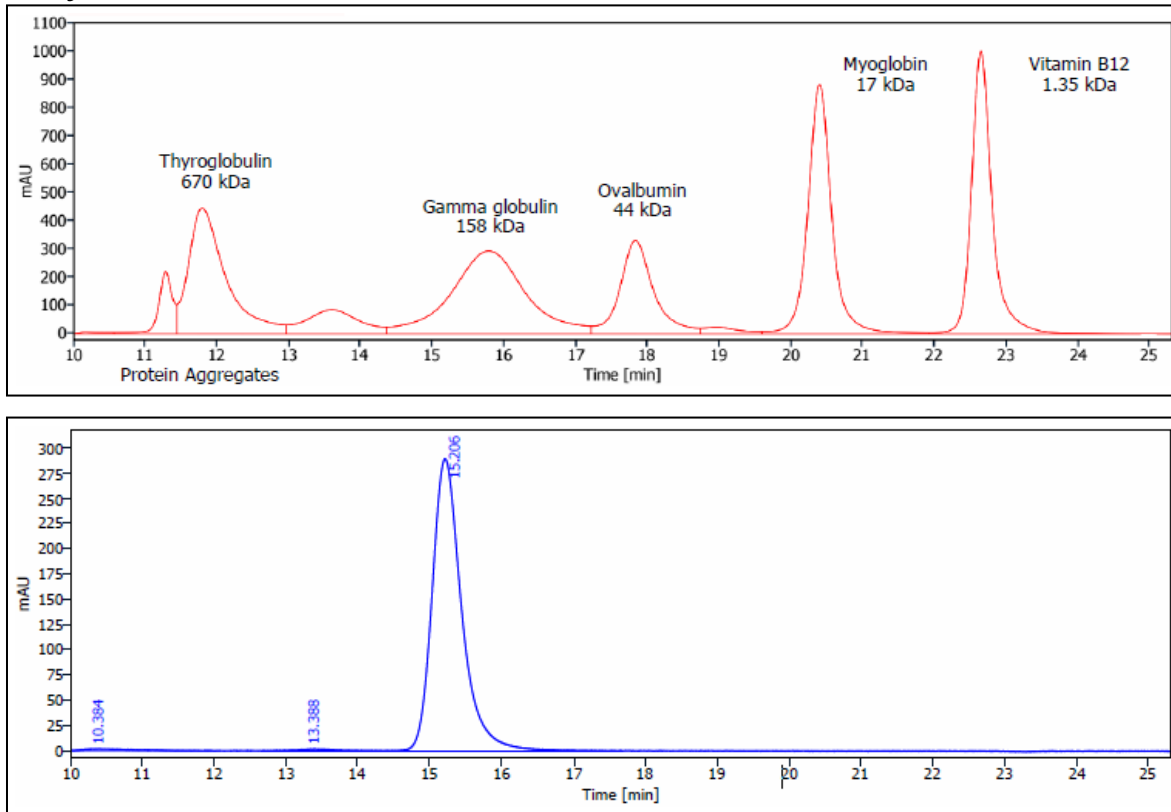
InVivo BioTech Services GmbH is certified to [ISO 9001](#) and [ISO 13485](#).

Literature:

- [1] Tryphonas M, King DP, Jones PP. Identification of a second class I antigen controlled by the K end of the H-2 complex and its selective cellular expression. Proc Natl Acad Sci U S A. 1983 Mar;80(5):1445-8. doi: 10.1073/pnas.80.5.1445. PMID: 6572399; PMCID: PMC393614.
- [2] de Vries JE, Yssel H, Spits H. Interplay between the TCR/CD3 complex and CD4 or CD8 in the activation of cytotoxic T lymphocytes. Immunol Rev. 1989 Jun;109:119-41. doi: 10.1111/j.1600-065x.1989.tb00022.x. PMID: 2527803.
- [3] Ozato K, Mayer NM, Sachs DH. Monoclonal antibodies to mouse major histocompatibility complex antigens. Transplantation. 1982 Sep;34(3):113-20. doi: 10.1097/00007890-198209000-00001. PMID: 7135466.

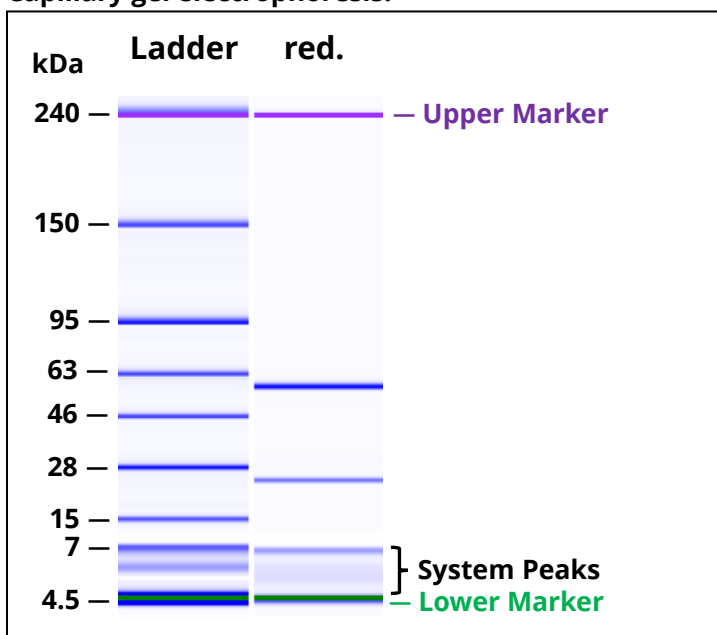
H-2Kd/H-2Dd mAb (34-1-2S), InVivoPure+ — Supplementary Data

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.