H-2 Kb/Db mAb (28-8-6S), InVivoPure+

Endotoxin level ≤ 1 EU/mg

Description:

The anti-H-2 Kb/Db monoclonal antibody (clone 28-8-6S) was purified from supernatant of HB-51™ 28-8-6S from the ATCC.*

Clone 28-8-6S is a mouse monoclonal antibody that specifically binds to the murine MHC class I molecules H-2Kb and H-2Db, which are part of the H-2b haplotype commonly found in C57BL/6 mice[1]. These molecules are essential for presenting endogenous peptides to $CD8^+$ cytotoxic T lymphocytes, playing a central role in immune surveillance and response to infection and cancer.

H-2Kb and H-2Db are critical for presenting intracellular antigens to $CD8^+$ T cells. This antibody is widely used in immunological research, including studies on viral immunity [2], tumor immunology [3], and neuroimmune interactions [4]. It is also valuable in transgenic mouse models and vaccine development. This antibody has been reported to be used in immunofluorescence, immunohistochemistry, and flow cytometry.

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

Product-ID:	**AK3656P+**
Clone:	28-8-6S
Immunogen:	Spleen cells from C3H.SW mice
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+)

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

IVS CS-0157, Rev. 01

***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] Ozato K, Sachs DH. Monoclonal antibodies to mouse MHC antigens. III. Hybridoma antibodies reacting to antigens of the H-2b haplotype reveal genetic control of isotype expression. J Immunol. 1981 Jan;126(1):317-21. PMID: 6935293.

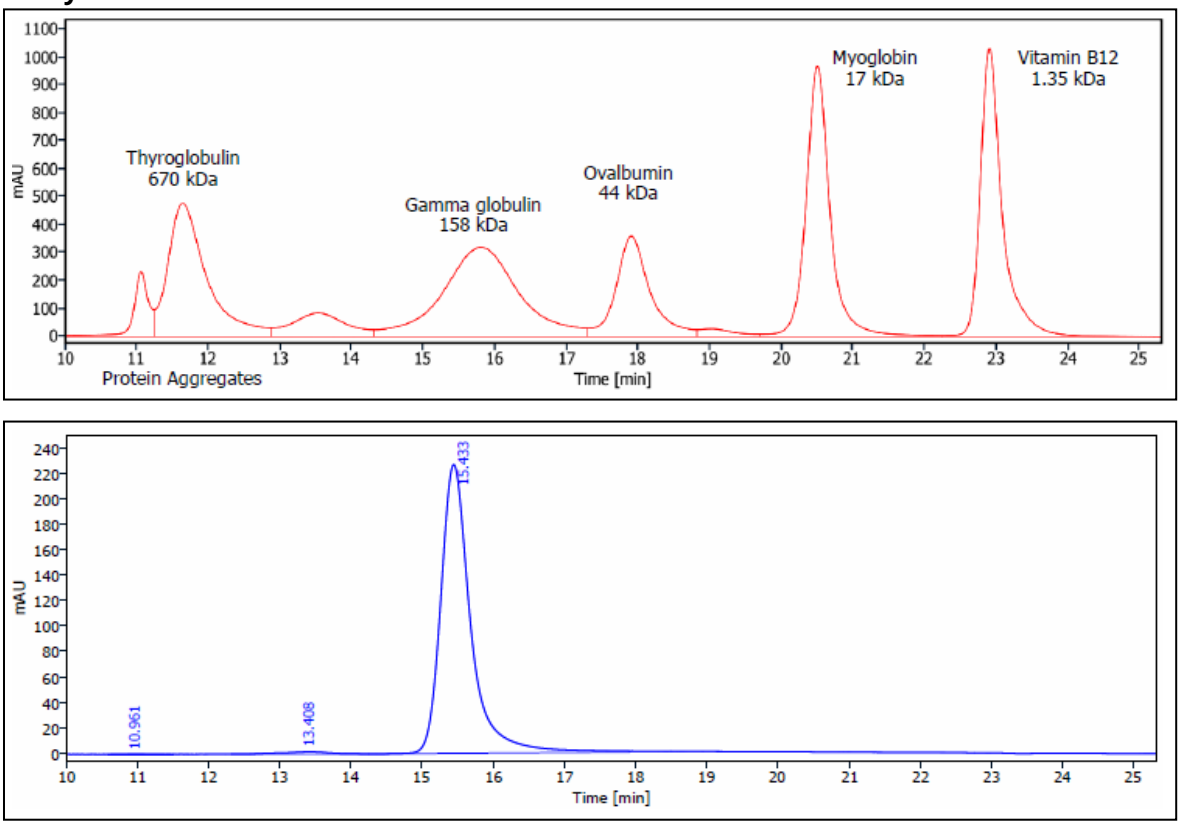
[2] Zinkernagel RM, Doherty PC. H-2 compatability requirement for T-cell-mediated lysis of target cells infected with lymphocytic choriomeningitis virus. Different cytotoxic T-cell specificities are associated with structures coded for in H-2K or H-2D; J Exp Med. 1975 Jun 1;141(6):1427-36. doi: 10.1084/jem.141.6.1427. PMID: 47901; PMCID: PMC2189841.

[3] Lee DR, Rubocki RJ, Lie WR, Hansen TH. The murine MHC class I genes, H-2Dq and H-2Lq, are strikingly homologous to each other, H-2Ld, and two genes reported to encode tumor-specific antigens. J Exp Med. 1988 Nov 1;168(5):1719-39. doi: 10.1084/jem.168.5.1719. PMID: 3263465; PMCID: PMC2189110.

[4] Wong GH, Bartlett PF, Clark-Lewis I, Battye F, Schrader JW. Inducible expression of H-2 and Ia antigens on brain cells. Nature. 1984 Aug 23-29;310(5979):688-91. doi: 10.1038/310688a0. PMID: 6433204.

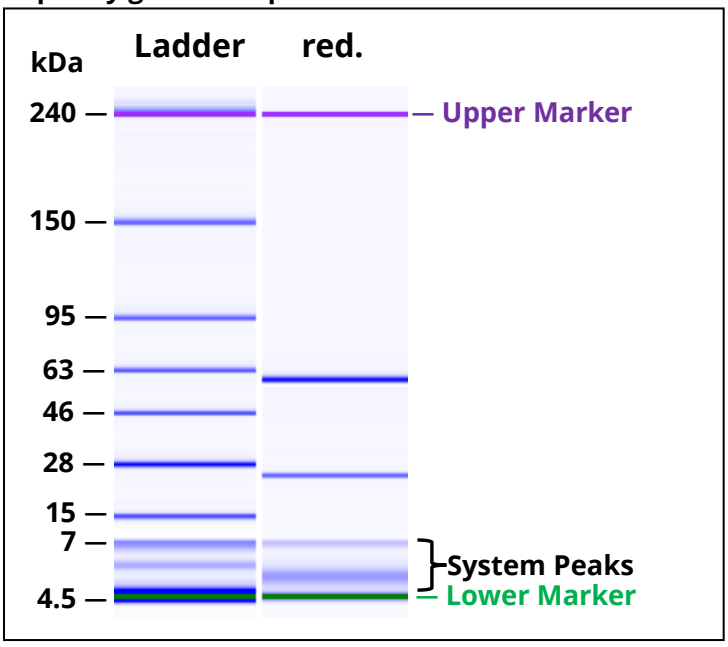
H-2 Kb/Db mAb (28-8-6S), InVivoPure+ — Supplementary Data

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.