

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

Endotoxin level  $\leq 2$  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.

<b>Product-ID:</b>	<b>AK3642P</b>
<b>Clone:</b>	<b>34-1-2S</b>
<b>Immunogen:</b>	Animals were immunized with spleen cells from BDF1 mice
<b>Host:</b>	Mouse
<b>Clonality:</b>	Monoclonal
<b>Isotype:</b>	Mouse IgG2a
<b>Formulation:</b>	Clear Liquid, PBS, pH 7.4, 0.2 $\mu$ m sterile filtered
<b>Concentration:</b>	$\geq 1.00$ mg/mL
<b>Purity:</b>	$\geq 90$ % (CGE, reducing conditions) $\leq 10$ % aggregates (analytical SEC)
<b>Endotoxin:</b>	$\leq 2$ EU/mg (LAL test)
<b>Storage:</b>	2 - 8 °C
<b>Recommended Isotype Control:</b>	Mouse IgG2a $\kappa$ 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.**

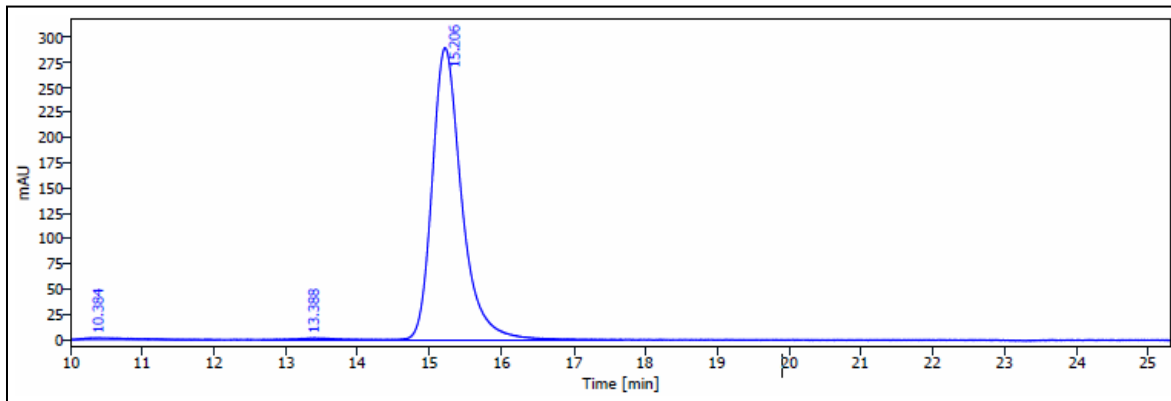
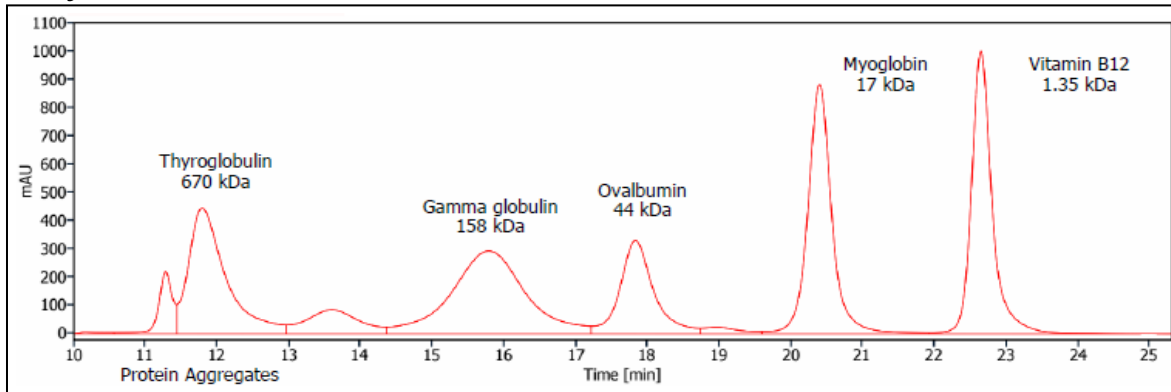
InVivo BioTech Services GmbH is certified to [ISO 9001](#) and [ISO 13485](#).

### 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.

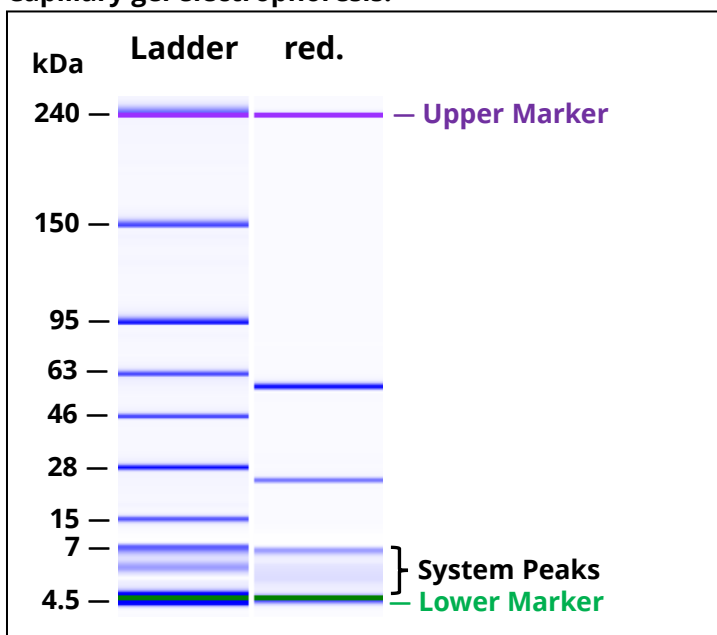
## H-2Kd/H-2Dd mAb (34-1-2S), InVivoPure — Supplementary Data

### 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.