

## CTLA-4 mAb (9H10), InVivoPure

Endotoxin level  $\leq 2$  EU/mg

### Description:

The CTLA-4 mAb clone 9H10 antibody recognizes cytotoxic T lymphocyte antigen-4 (CTLA-4) also known as CD152. Antibody 9H10 has shown specific reactivity against CTLA-4 Ig but not CD4 Ig, as well as the ability to block CTLA-4 Ig by binding to B7 transfected cells. Staining of activated T cells, but not freshly isolated T cells, is reported, as well as the ability to stain a CTLA-4 transfectant but not control transfectants [1]. The CTLA-4 mAb (9H10) antibody has shown effectiveness in reducing tumor growth and metastasis in preclinical models [2]. These characteristics make the 9H10 antibody a reliable tool for identifying and studying CTLA-4 in various immunological contexts.

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

<b>Product-ID:</b>	<b>AK3607P</b>
<b>Clone:</b>	9H10
<b>Immunogen:</b>	This antibody was raised by immunizing Syrian hamsters with heat-killed <i>Staphylococcus A</i> bacteria coated in CTLA-4.
<b>Host:</b>	Syrian Hamster
<b>Clonality:</b>	Monoclonal
<b>Isotype:</b>	IgG
<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

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

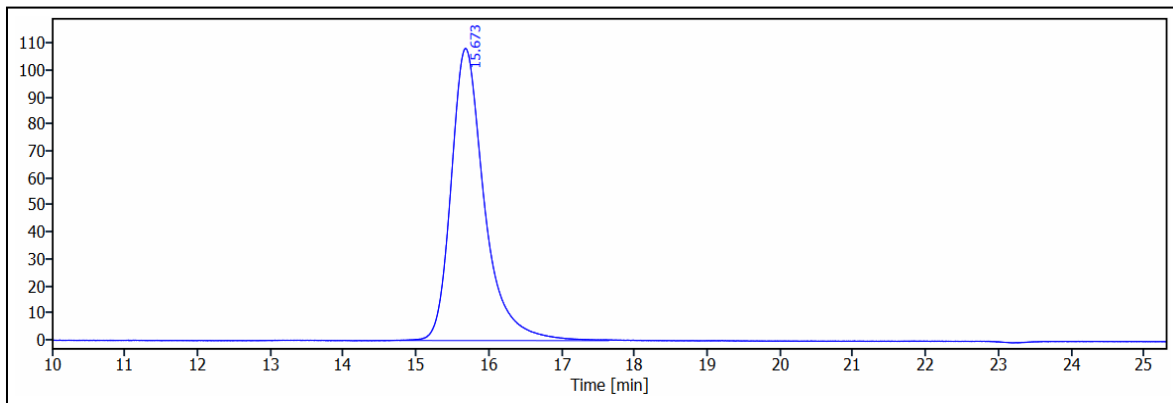
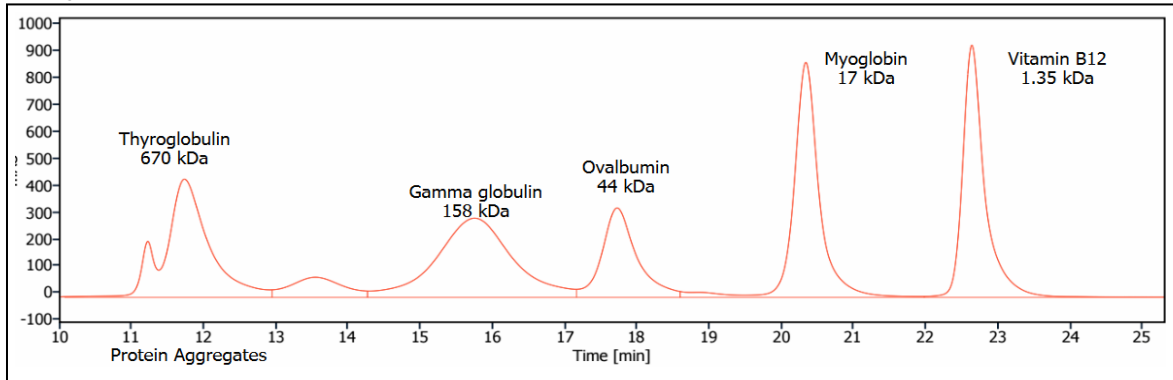
InVivo BioTech Services GmbH is certified to [ISO 9001](#) and [ISO 13485](#).

### Literature:

- [1] Krummel MF, Allison JP. CD28 and CTLA-4 have opposing effects on the response of T cells to stimulation. *J Exp Med.* 1995 Aug 1;182(2):459-65. doi: 10.1084/jem.182.2.459. PMID: 7543139; PMCID: PMC2192127.
- [2] Demaria S, Kawashima N, Yang AM, Devitt ML, Babb JS, Allison JP, Formenti SC. Immune-mediated inhibition of metastases after treatment with local radiation and CTLA-4 blockade in a mouse model of breast cancer. *Clin Cancer Res.* 2005 Jan 15;11(2 Pt 1):728-34. PMID: 15701862.

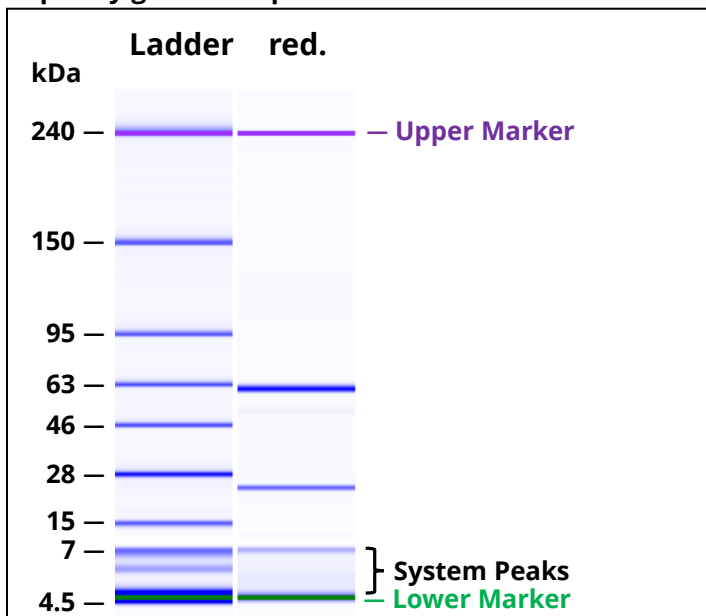
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— Supplementary Data

**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.