

IFNAR-1 mAb (MAR1-5A3), InVivoPure

Endotoxin level ≤ 2 EU/mg

Description:

Anti-IFNAR-1 (clone MAR1-5A3) is a mouse monoclonal antibody targeting the extracellular domain of the murine interferon alpha/beta receptor subunit 1 (IFNAR-1). It is widely used to block type I interferon signaling in both *in vitro* and *in vivo* models. The antibody was developed by immunizing mice via hydrodynamic transfection, a method that induces strong immune responses against membrane proteins [1].

MAR1-5A3 has been shown to effectively inhibit IFN- α/β signaling, making it a valuable tool in studies of viral pathogenesis, autoimmune diseases, and tumor immunology [1,2]. It is used in neutralization assays, flow cytometry, and functional studies to dissect the role of type I IFNs in immune responses.

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

Product-ID:	AK3654P
Clone:	MAR1-5A3
Immunogen:	Extracellular domain of murine IFNAR1
Host:	Mouse
Clonality:	Monoclonal
Isotype:	Mouse IgG1
Formulation:	Clear Liquid, PBS, pH 7.4, 0.2 μ m 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 IgG1 κ Isotype Control (AK3421P)

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

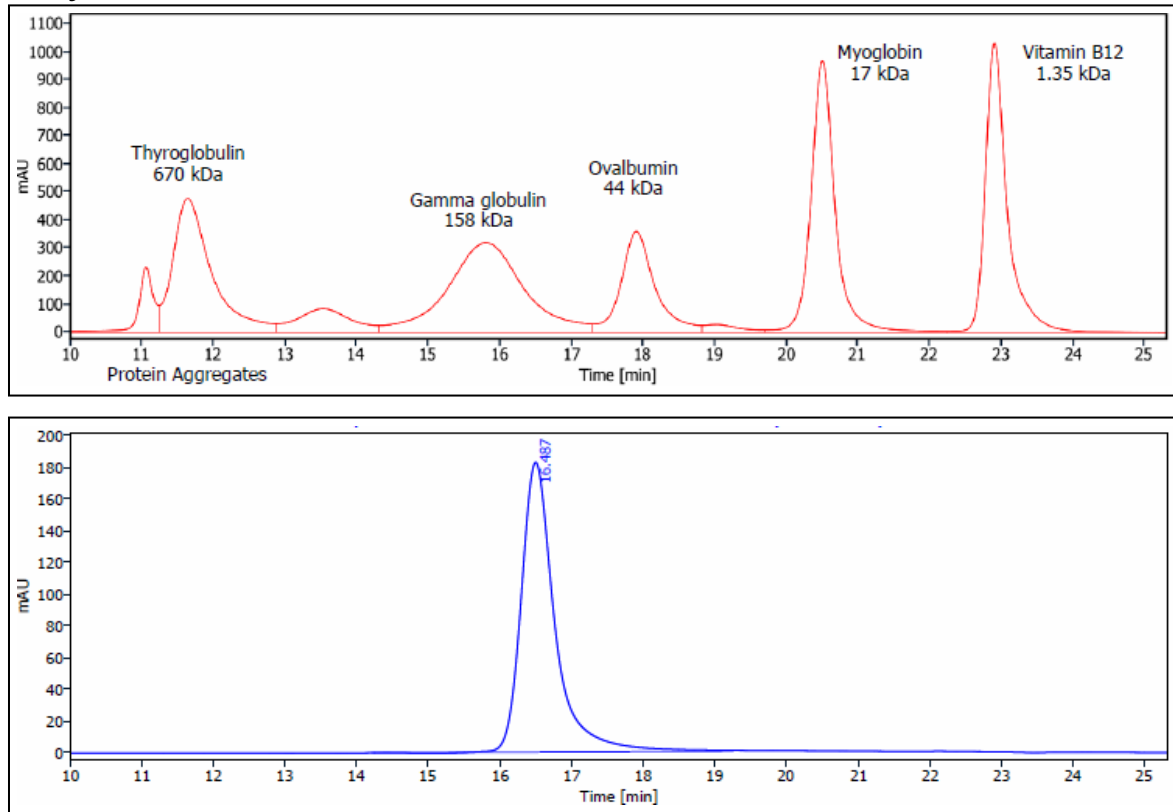
InVivo BioTech Services GmbH is certified to [ISO 9001](#) and [ISO 13485](#).

Literature:

- [1] Sheehan KC, Lai KS, Dunn GP, Bruce AT, Diamond MS, Heutel JD, Dungo-Arthur C, Carrero JA, White JM, Hertzog PJ, Schreiber RD. Blocking monoclonal antibodies specific for mouse IFN- α /beta receptor subunit 1 (IFNAR-1) from mice immunized by in vivo hydrodynamic transfection. J Interferon Cytokine Res. 2006 Nov;26(11):804-19. doi: 10.1089/jir.2006.26.804. PMID: 17115899.
- [2] Teijaro JR, Ng C, Lee AM, Sullivan BM, Sheehan KC, Welch M, Schreiber RD, de la Torre JC, Oldstone MB. Persistent LCMV infection is controlled by blockade of type I interferon signaling. Science. 2013 Apr 12;340(6129):207-11. doi: 10.1126/science.1235214. PMID: 23580529; PMCID: PMC3640797.

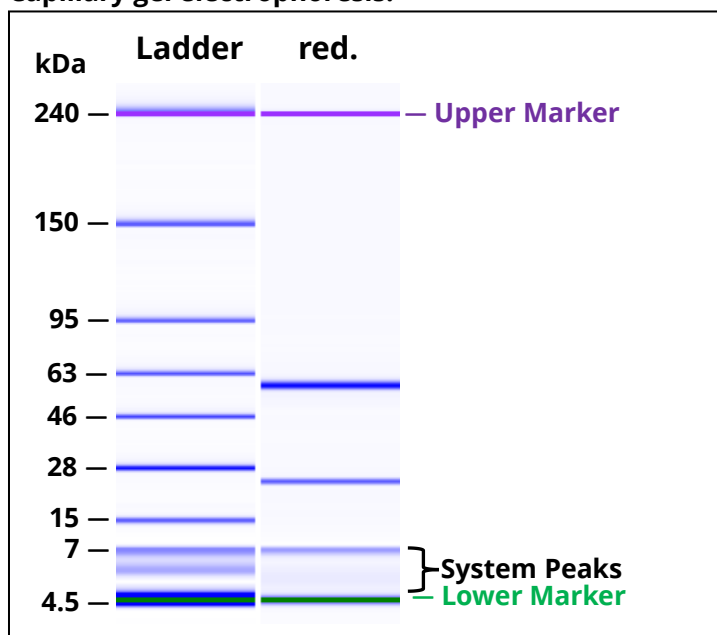
IFNAR-1 mAb (MAR1-5A3), InVivoPure — Supplementary Data

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.