

CD71 mAb (R17 217.1.3), InVivoPure+

Endotoxin level ≤ 1 EU/mg

Description:

The anti-CD71 monoclonal antibody (R17 217.1.3) was purified from supernatant of TIB-219™ R17 217.1.3 from the ATCC.*

CD71 (transferrin receptor 1, TfR1) is a type II transmembrane glycoprotein essential for iron uptake in proliferating cells. It is highly expressed on activated lymphocytes, hematopoietic progenitors, and rapidly dividing cells making it a valuable marker for cell proliferation and iron metabolism studies. [1]

The monoclonal antibody R17217.1.3 is a rat IgG2a antibody specific for mouse CD71. It is widely used in flow cytometry, immunohistochemistry, and in vivo depletion/blockade studies. [2]

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

Product-ID:	AK3639P+
Clone:	R17 217.1.3
Immunogen:	Animals were immunized with the mouse erythroleukemia line 745.6.
Host:	Rat
Clonality:	Monoclonal
Isotype:	Rat 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:	Rat IgG2a Isotype Control (AK3619P+)

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](#).

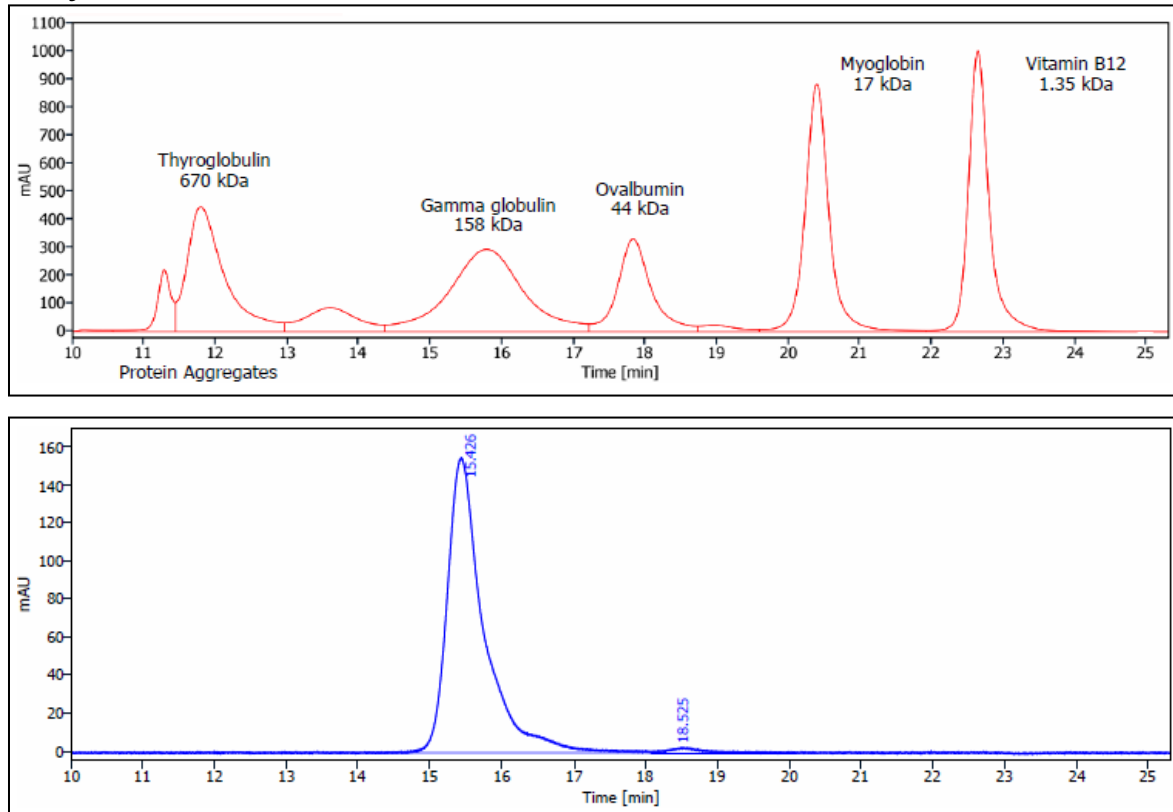
Literature:

- [1] Jennifer B, Berg V, Modak M, Puck A, Seyerl-Jiresch M, König S, Zlabinger GJ, Steinberger P, Chou J, Geha RS, Öhler L, Yachie A, Choe H, Kraller M, Stockinger H, Stöckl J. Transferrin receptor 1 is a cellular receptor for human heme-albumin. *Commun Biol.* 2020 Oct 27;3(1):621. doi: 10.1038/s42003-020-01294-5. PMID: 33110194; PMCID: PMC7591885.

- [2] Hunt DW, Levy JG. Influence of Photofrin on the hematopoietic accessory function of murine peritoneal cells. *Immunopharmacol Immunotoxicol.* 1997 Aug;19(3):349-65. doi: 10.3109/08923979709046981. PMID: 9248863.

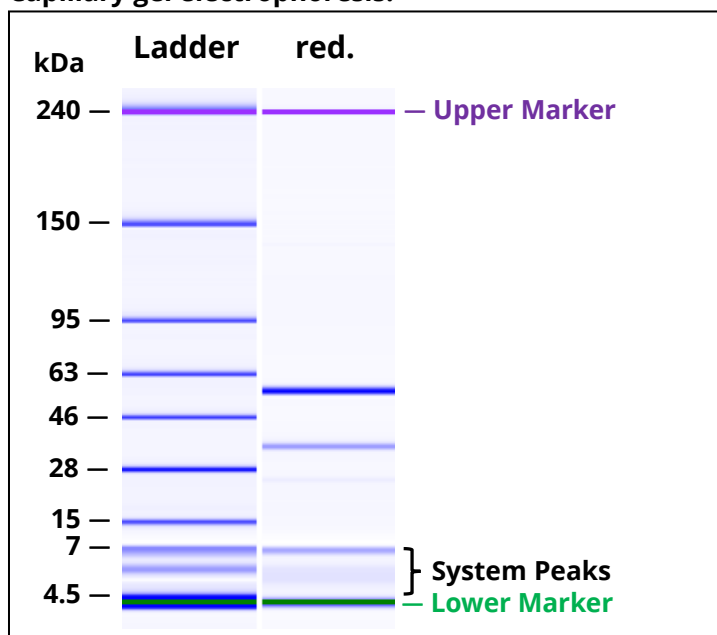
CD71 mAb (R17 217.1.3), InVivoPure+ — Supplementary Data

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.