

## CD16/CD32 mAb (2.4G2), InVivoPure

Endotoxin level  $\leq 2$  EU/mg

### Description:

**The CD16/CD32 monoclonal antibody (clone 2.4G2) was purified from supernatant of HB-197™ 2.4G2 from the ATCC.\***

CD16/CD32 (2.4G2) rat antibody recognizes endogenous levels of total CD16/CD32 protein. This antibody detects an epitope within the extracellular domain and is expected to detect all isoforms of CD16 and CD32. The 2.4G2 antibody blocks the interaction between IgG and CD16 or CD32. Therefore pre-treatment with the 2.4G2 antibody is commonly described in protocols for minimizing non-specific binding of antibodies to Fc receptor-bearing cells. This is particularly useful in applications such as flow cytometry, cell sorting, and immunofluorescence [1]. CD16/CD32 is expressed on NK cells, monocytes, macrophages, dendritic cells (at low levels), kupffer cells, granulocytes, mast cells, B lymphocytes and some activated T lymphocyte [2].

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>AK3608P</b>
<b>Clone:</b>	2.4G2
<b>Immunogen:</b>	Animals were immunized with the J774 mouse macrophage cell line.
<b>Host:</b>	Rat
<b>Clonality:</b>	Monoclonal
<b>Isotype:</b>	IgG2b $\kappa$
<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.**

**\*The ATCC trademark and trade name and any and all ATCC catalog numbers are trademarks of the American Type Culture Collection.**

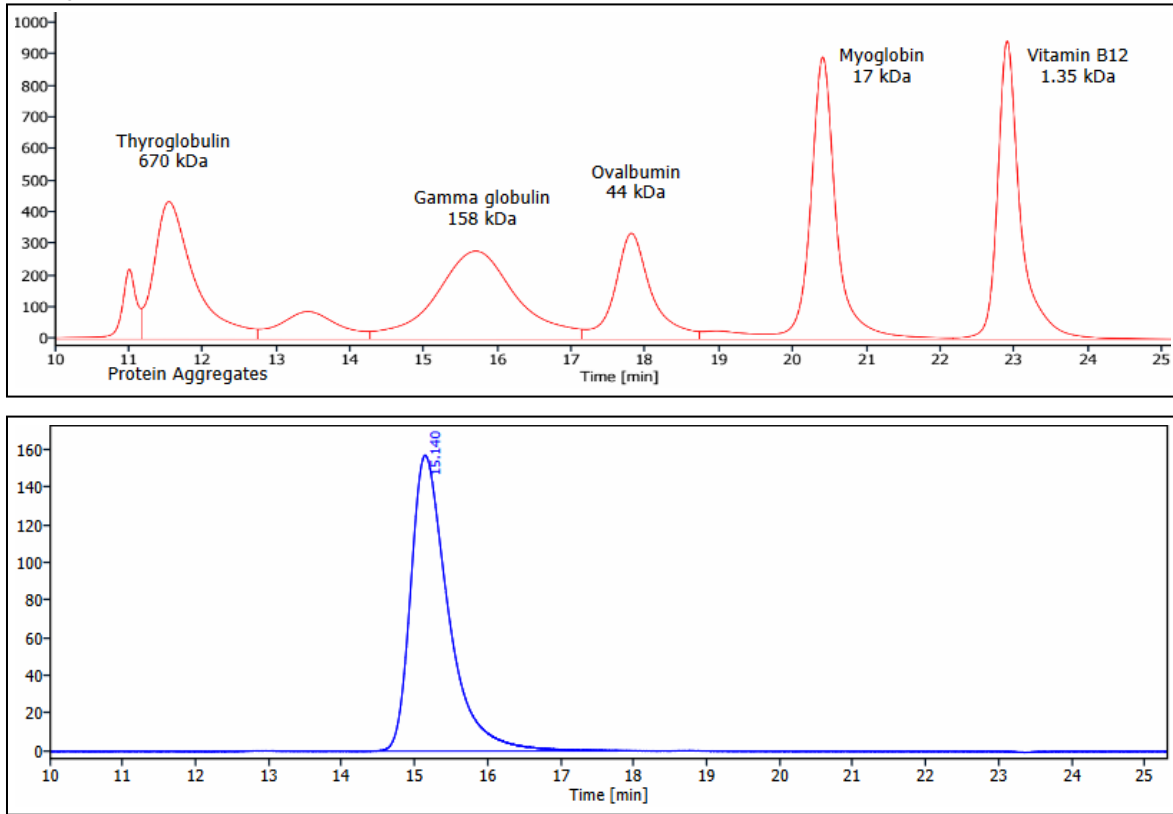
InVivo BioTech Services GmbH is certified to [ISO 9001](#) and [ISO 13485](#).

### Literature:

- [1] Maenaka K, van der Merwe PA, Stuart DI, Jones EY, Sonderrmann P. The human low affinity Fcγ receptors IIa, IIb, and III bind IgG with fast kinetics and distinct thermodynamic properties. *J Biol Chem.* 2001 Nov 30;276(48):44898-904. doi: 10.1074/jbc.M106819200. Epub 2001 Sep 5. PMID: 11544262.
  
- [2] Anania JC, Chenoweth AM, Wines BD, Hogarth PM. The Human FcγRII (CD32) Family of Leukocyte FcR in Health and Disease. *Front Immunol.* 2019 Mar 19;10:464. doi: 10.3389/fimmu.2019.00464. PMID: 30941127; PMCID: PMC6433993.

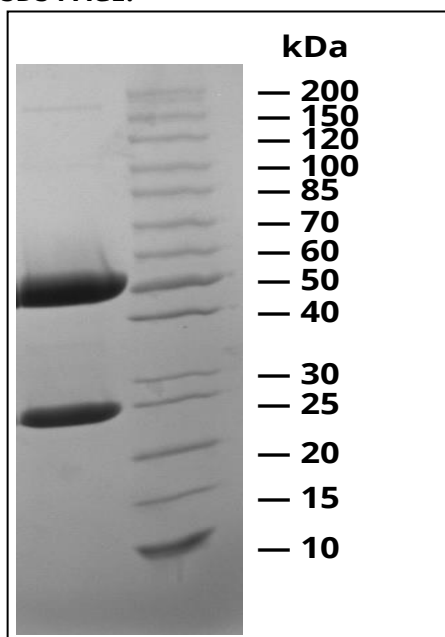
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— Supplementary Data

**Analytical SEC:**



Analytical SEC of purified protein (blue) in comparison with gel filtration standard (red).

**SDS PAGE:**



SDS PAGE of the purified protein under reducing conditions.