

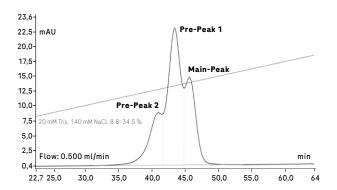
FcRn Affinity Column Gen2

Enhanced analysis of antibody half-life

Function and effects of the FcRn

The neonatal Fc receptor (FcRn) is important for the metabolic fate of IgG antibodies *in vivo*. Analysis of the interaction between FcRn and IgG *in vitro* can provide insights into the structural and functional integrity of a therapeutic IgG, which can impact pharmacokinetics (PK) *in vivo*. ¹

An affinity chromatography column that resolves antibody species and variants based on binding affinity to FcRn is now available from Roche CustomBiotech.



Evaluation of a partially oxidized monoclonal antibody (Stracke J, et al., 2014)²

The column uses a pH gradient allowing you to easily view binding across a range of pH values, not only at pH 6.0 or pH 7.4.

The FcRn Affinity Column Gen2 accelerates and standardizes antibody half-life analysis, so you can develop a meaningful lead candidate more quicky.

The easy-to-use FcRn Affinity Column Gen2 works on your HPLC and allows you to:

- characterize and distinguish
 - IgG variants with different Fab fragments.
 - oxidized and native IgG.
 - aggregated and monomeric IgG.
 - wild-type and engineered IgG.
 - antibody isotypes.
 - aggregates and unbound serum albumin.
- monitor antibody behavior at multiple pH values, visualizing even minor differences in antibody and its half-life.
- automate antibody processing.
- eliminate potentially inconsistent coating densities for truly standardized analyses.

Proteins that bind to FcRn

- Human lqG1, lqG2, lqG3, lqG4
- Human albumin (often used as a fusion protein for therapeutic proteins)
- Some IgG antibodies of non-human species are able to bind human FcRn

Specifications

Prepacked chromatography column

with 1 mL FcRn resin

Binding capacity	≥ 100 µg lgG	
Maximal system pressure	20 bar	
Maximal volumetric flow rate	etric flow rate 0.5 mL/min	
Stability	stable for ≥ 100 injections, stored at +2 to +8°C	

Ordering information

Products	Pack size	Catalog Number
FcRn Affinity Column Gen2	1 pre-packed column	09 430 857 001
FcRn IgG Control	1 mL	09 494 804 001

Regulatory Disclaimer

For use in quality control/manufacturing process only.



Literature on CustomBiotech website Please see the comprehensive list of publications here

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Published by

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Litaratura

- Schlothauer T. et al. (2013), Analytical FcRn affinity chromatography for functional characterization of monoclonal antibodies, MAbs 5:576
- tracke J. et al. (2014), A novel approach to investigate the effect of methionine oxidation on pharmacokinetic properties of therapeutic antibodies, MAbs 6:1229