












Fc Receptor Family Proteins

The efficacy of a therapeutic antibody not only depends on the Fab fragment and its binding activity to the target antigen, but also depends on the Fc fragment and its interaction with key Fc receptors. The binding affinity of the Fc fragment towards FcRn (FCGRT&B2M) would predict the antibody's half life, while that between the Fc fragment and FCGRIIIA (CD16a) would influence the antibody's ability to elicit ADCC. Hence, screening for desired binding affinity to these Fc receptors is an essential component in the development of a therapeutic mAb.

ACROBiosystems offers a comprehensive collection of recombinant Fc receptor proteins, including their common variants, to help expedite your mAb development. These products have the following features that make them uniquely suitable for pharmaceutical research.

■ Biotinylated Proteins Available



The use of biotin labeling can make your assay development much easier. We offer a variety of ready-to-use biotinylated Fc receptors (marked in red in the table below). These proteins are produced using our in-house developed labeling technique, which confers high bioactivity and minimal batch-to-batch variation.

| Molecule | Cat. No. | Species | Structure | Size |
|-----------------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------|-------------|
| FcRn  | FCM-H5286 |  Human | FCGRT (24-297) His B2M (21-119) Strep II | 50ug, 1mg |
| FcRn (Biotin-labeled)  | FCM-H8286 |  Human | FCGRT (24-297) His B2M (21-119) Strep II | 25ug, 200ug |
| FcRn  | FCM-C5284 |  Cynomolgus / Rhesus | FCGRT (24-297) His B2M (21-119) Strep II | 50ug, 1mg |
| FcRn | FCM-R5287 |  Rat | FCGRT (23-298) His B2M (21-119) Strep II | 50ug, 1mg |
| FcRn (Biotin-labeled)  | FCM-H82W4 |  Human | FCGRT (24-297) Avi His B2M (21-119) Strep II | 25ug, 200ug |

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| Molecule | Cat. No. | Species | Structure | Size |
|----------------------------------------|-----------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------|-------------|
| FcRn | FCM-M52W2 |  Mouse | FCGRT (22-297) His B2M (21-119) Twin-Strep | 50ug, 1mg |
| HOT FcRn (Biotin-labeled) | FCM-M82W6 |  Mouse | FCGRT (22-297) Avi His B2M (21-119) Twin-Strep | 25ug, 200ug |
| HOT FcRn (Biotin-labeled) | FCM-C82W5 |  Cynomolgus / Rhesus | FCGRT (24-297) Avi His B2M (21-119) Strep II | 25ug, 200ug |
| FcRn | FCM-P5280 |  Porcine | FCGRT (16-289) His B2M (21-118) Strep II | 50ug, 1mg |
| FcRn (Biotin-labeled) | FCM-R82W7 |  Rat | FCGRT (23-298) Avi His B2M (21-119) Strep II | 25ug, 200ug |
| Fc gamma RIIIA | CDA-H5220 |  Human | F176 CD16a (17-208) His | 100ug, 1mg |
| Fc gamma RIIIA | CD8-H52H4 |  Human | V176 CD16a (17-208) His | 100ug, 1mg |
| Fc gamma RIIIA (Biotin-labeled) | CDA-H82E8 |  Human | F176 CD16a (17-208) Avi His | 25ug, 200ug |
| Fc gamma RIIIA (Biotin-labeled) | CDA-H82E9 |  Human | V176 CD16a (17-208) Avi His | 25ug, 200ug |
| Fc gamma RIIIA | CDA-M52H8 |  Mouse | CD16a (32-215) His | 100ug, 1mg |
| Fc gamma RIIIB | CDB-H5222 |  Human | CD16b (17-200) His | 100ug, 1mg |
| NEW Fc gamma RIIIB | CDB-H5227 |  Human | CD16b (17-200) His | 100ug, 1mg |

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| Molecule | Cat. No. | Species | Structure | Size |
|--------------------------------------------------|-----------|----------------------------------------------------------------------------------------------|--------------------------------------------------|-------------|
| NEW Fc gamma RIIIB (Biotin-labeled) | CDB-H82E4 |  Human | CD16b (17-200) His Avi | 25ug, 200ug |
| HOT Fc gamma RIIA | CD1-H5223 |  Human | ^{H167} CD32a (36-218) His | 100ug, 1mg |
| Fc gamma RIIA | CDA-H5221 |  Human | ^{R167} CD32a (36-218) His | 100ug, 1mg |
| Fc gamma RIIA (Biotin-labeled) | CDA-H82E6 |  Human | ^{H167} CD32a (36-218) Avi His | 25ug, 200ug |
| Fc gamma RIIA (Biotin-labeled) | CDA-H82E7 |  Human | ^{R167} CD32a (36-218) Avi His | 25ug, 200ug |
| Fc gamma RIIIB | CDB-H5228 |  Human | CD32b (46-217) His | 100ug, 1mg |
| Fc gamma RIIIB (Biotin-labeled) | CDB-H82E0 |  Human | CD32b (46-217) Avi His | 25ug, 200ug |
| Fc gamma RIIIB | CDB-M52H7 |  Mouse | CD32b (40-217) His | 100ug, 1mg |
| Fc gamma RI | FCA-H52H2 |  Human | CD64 (16-288) His | 100ug, 1mg |
| Fc gamma RI (Biotin-labeled) | CD4-M52E8 |  Mouse | CD64 (25-297) Avi His | 25ug, 200ug |
| Fc gamma RI | CD4-M5227 |  Mouse | CD64 (25-297) His | 100ug, 1mg |
| NEW CD23 (Biotin-labeled) | CD3-H82Q5 |  Human | His Avi CD23 (48-321) | 25ug, 200ug |



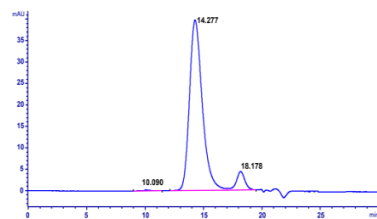
Fc Receptor Family Proteins

■ Human Cell-expressed

All of our Fc receptor proteins are produced in HEK293 cells, which ensures the authentic post-translational modification essential for their binding activities.

■ High Purity & High Quality

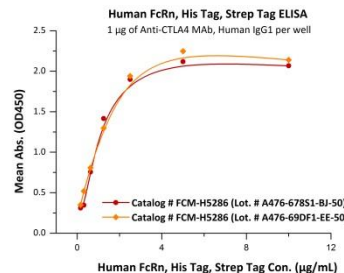
To meet the high purity requirement of pharmaceutical applications, most of our proteins have to go through both SDS-PAGE and HPLC analyses. Only those meeting all requirements will be issued a lot-specific certificate of assurance and be released.



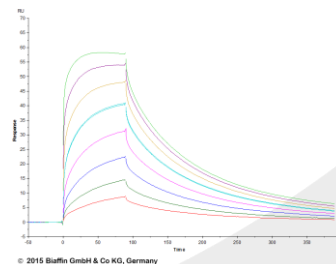
The purity of human FcRn (Cat. No. FCM-H5286) is greater than 95% as determined in a HPLC analysis.

■ Binding Activity Validated

The binding activity of our Fc receptors has been thoroughly evaluated by both SPR and ELISA analyses prior to launch.



Immobilized Herceptin (Human IgG1) at 5 µg/mL (100 µL/well) can bind human FcRn (Cat. No. FCM-H5286) with a linear range of 0.2-5 µg/ml as determined in a functional ELISA.



Immobilized Human FCGR3A / CD16a (V176), His Tag (Cat. No. CD8-H52H4) can bind Ipilimumab with affinity constant around 171 nM in a SPR assay (Biacore 2000). The data is generally provided by Bioffin GmbH & Co KG, Germany.

PD-L1B7-H1CD172a
TNFRSF5CD47B7-1
OX40 Ligand KDR
CD40CD80
PD-L2HPLC
TNFRSF4 B7-1
CD40B7-DC
TNF-αB7-1NPSF4
CD40OX40LigandB7-H1
PD-L1VEGF R2
HPLC-VerifiedVEGF164
C-Reactve Protein
VEGF165
PD-1PDC1CD48
HPLC-Verified
C-Reactve Protein
CD40PD-L2H1CD40B7-1
HPLC
TNF-αOX40 Ligand PD-1
TNF-αPD-L1

+ 1 800-810-0816 (US/Canada)
+ 86 400-682-2521 (Asia & Pacific)
techsupport@acrobiosystems.com
www.acrobiosystems.com
1 Innovation Way,
Newark, DE 19711