








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
FcRn (Biotin-labeled)	FCM-M82W6	 Mouse	FCGRT (22-297) Avi His B2M (21-119) Twin-Strep	25ug, 200ug
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
Fc gamma RIIIB (Biotin-labeled)	CDB-H82E1	 Human	CD16b (17-200) Avi His	25ug, 200ug

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Molecule	Cat. No.	Species	Structure	Size
Fc gamma RIIA	CD1-H5223	 Human	^{H167} CD32a (36-218) His	100ug, 1mg
Fc gamma RIIA	CDA-H5221	 Human	^{R167} CD32a (35-217) 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 (35-217) Avi His	25ug, 200ug
Fc gamma RIIB	CDB-H5228	 Human	CD32b (46-217) His	100ug, 1mg
Fc gamma RIIB (Biotin-labeled)	CDB-H82E0	 Human	CD32b (46-217) Avi His	25ug, 200ug
Fc gamma RIIB	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
CD23	CD3-H5249	 Human	His CD23 (48-321)	100ug, 1mg



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Human Cell-expressed

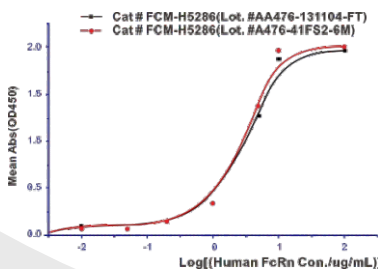
All of our Fc receptor proteins are produced in HEK293 cells, which ensures the authentic post-translational modification essential for their binding activities.

High Purity & High Quality

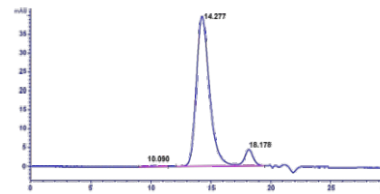
To meet the high purity requirement of pharmaceutical applications, most of our proteins have to go through both SDS-PAGE and HPLC analyses. Only those meeting all requirements will be issued a lot-specific certificate of assurance and be released.

Binding Activity Validated

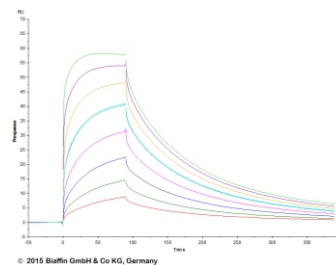
The binding activity of our Fc receptors has been thoroughly evaluated by both SPR and ELISA analyses prior to launch.



Immobilized Herceptin (Human IgG1) at 5 µg/mL (100 µL/well) can bind human FcRn (Cat. # FCM-H5286) with a linear range of 0.2-5 µg/ml as determined in a functional ELISA.



The purity of human FcRn (Cat. # FCM-H5286) is greater than 95% as determined in a HPLC analysis.



Immobilized Human FCGR3A / CD16a (V176), His Tag (Cat. # CD8-H52H4) can bind Ipilimumab with affinity constant around 171 nM in a SPR assay (Biacore 2000). The data is generally provided by Biaffin GmbH & Co KG, Germany.

TIM-3CTLA-4-1BB
Immune Checkpoint
BiotinylatedHER2
B7-H4 TIGIT 4-1BB Ligand
CD40GITR
PD-L2HER2
CDNA3-1B7-1
L-TIM-3FcRn
TNF- α LAG-3
CD19 OX40 Ligand B7-H2
PD-1CD47PCSK9
Checkpoint
Immune Checkpoint
Biotin-labeled
VEGF165
FcRn HER2 ICOS
B7-H4
CTLA-4
Biotin-labeled
HER2PD-L2
PCSK9
Biotinylated PD-1
TNF- α PD-L2

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