

Fc Receptor Family Proteins

On Sale from Oct. 20th to Nov. 25th!!

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 FCGR11A (CD16a) would influence the antibody's ability to elicit ADCC (antibody dependent cell mediated cytotoxicity). Hence, screening for desired binding affinity to these Fc receptors is an essential component in the development of a therapeutic mAb (monoclonal antibody).

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.

Human Cell-Expressed

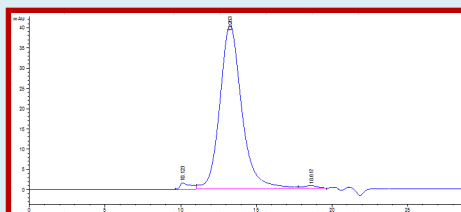
All our proteins are produced in HEK293 cells, which ensures the authentic post-translational modification essential for their binding activities.

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 techniques, which confers high bioactivity and minimal batch-to-batch variation.

High Purity & High Quality

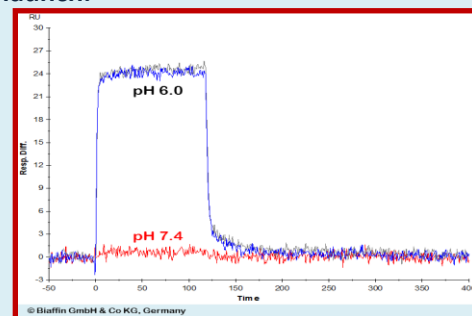
To meet the high purity requirement of pharmaceutical applications, all proteins have to go through both SDS-PAGE and HPLC analyses. Only those meeting all requirements will be issued a lot-specific certificate of assurance and be released.



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

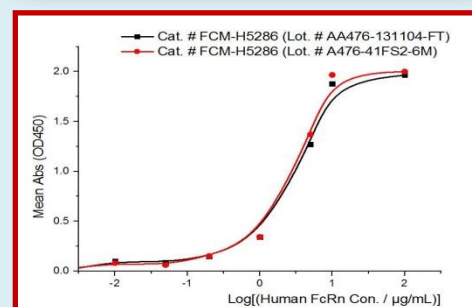
Binding Activity Validated

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



Immobilized human FcRn (FCM-H5286) can bind human IgG1 with an affinity constant of 1 μ M as determined in a SPR assay (Biacore 2000). The data is generally provided by Biaffin GmbH & Co KG, Germany.

Catalog#	Species	Product Name
FCM-H5286	Human	FcRn/FCGRT & B2M Heterodimer Protein HOT!
FCM-H82W4	Human	Biotinylated FcRn/FCGRT&B2M Heterodimer Protein HOT!
FCM-M52W2	Mouse	FcRn/FCGRT&B2M Heterodimer Protein
FCM-R5287	Rat	FcRn/FCGRT&B2M Heterodimer Protein
FCM-C5284	Cynomolgus	FcRn/FCGRT&B2M Heterodimer Protein
CDA-H5220	Human	FCGR3A/CD16a (F158) Protein
CD8-H52H4	Human	FCGR3A/CD16a (V158) Protein
CDA-H82E8	Human	Biotinylated FCGR3A/CD16a (F158) Protein
CDA-H82E9	Human	Biotinylated FCGR3A/CD16a (V158) Protein
CDB-H5222	Human	Fc gamma RIIB/CD16b Protein
CD3-H5249	Human	CD23/Fc epsilon RII Protein
CD1-H5223	Human	FcGR2A/CD32a (H131) Protein
CDA-H5221	Human	FcGR2A/CD32a (R131) Protein
CDA-H82E6	Human	Biotinylated FcGR2A/CD32a (H131) Protein
CDB-H5228	Human	Fc gamma RIIB/CD32b Protein
FCA-H52H2	Human	Fc gamma RI/CD64 Protein
CD4-M5227	Mouse	Fc gamma RI/CD64 Protein
CD4-M52E8	Mouse	Biotinylated Fc gamma RI/CD64 Protein



Immobilized Herceptin (Human IgG1) at 5 μ g/ml (100 μ L/well) can bind human FcRn (FCM-H5286) with a linear range of 0.2-5 μ g/ml as determined in a functional ELISA.