

# FC Receptor Family Proteins

AMSBIO 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.

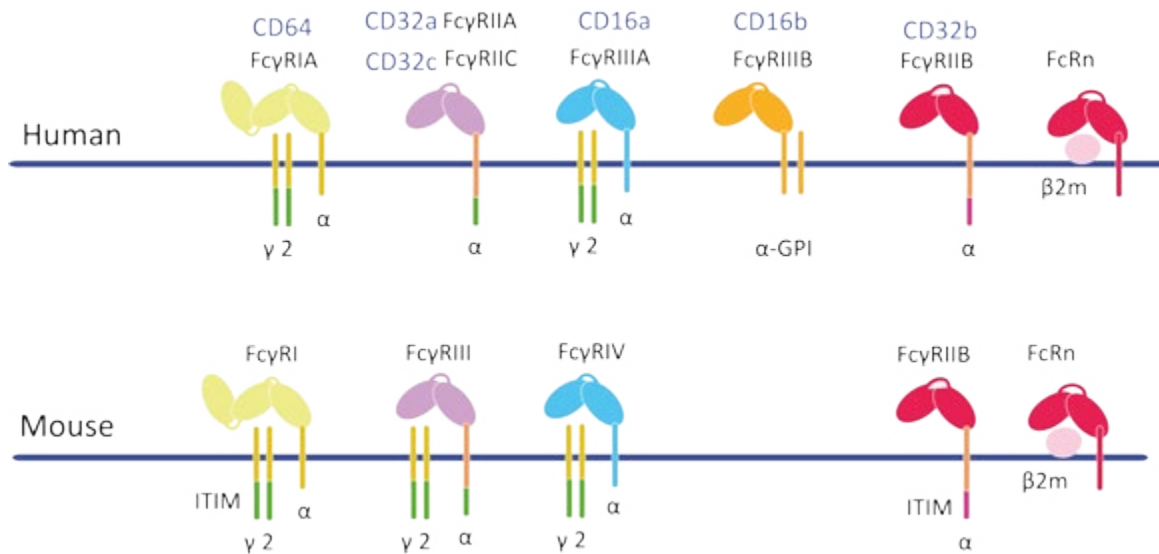


Fig 1. Diagram of mouse and human receptors CD64, CD32, CD16 and FcRn, for the Fc portion of IgG.

## High Purity & High Quality

1

- ✓ High purity suitable for pharmaceutical applications
- ✓ All proteins go through both SDS-PAGE and HPLC analyses.
- ✓ Lot-specific certificates of assurances.

## Biotinylated Proteins Available

2

- ✓ Biotin labeling can make your assay development much easier.
- ✓ A variety of ready-to-use biotinylated Fc receptors.
- ✓ High bioactivity and minimal batch-to-batch variation.

3

## Binding Activity Validated

- ✓ Binding activity evaluated by both SPR and ELISA analyses.

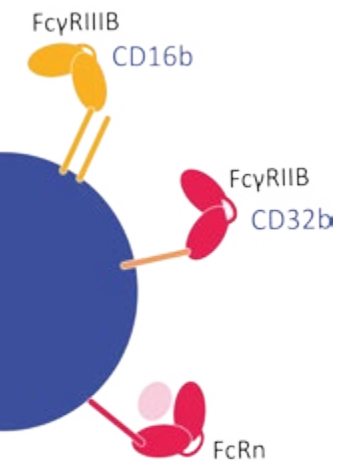
4

## Human Cell-Expressed

- ✓ All our proteins are produced in HEK293 cells.
- ✓ Authentic post-translational modification.

# IgG Fc Receptor 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 FCGR11IA (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).



## FcRn Proteins

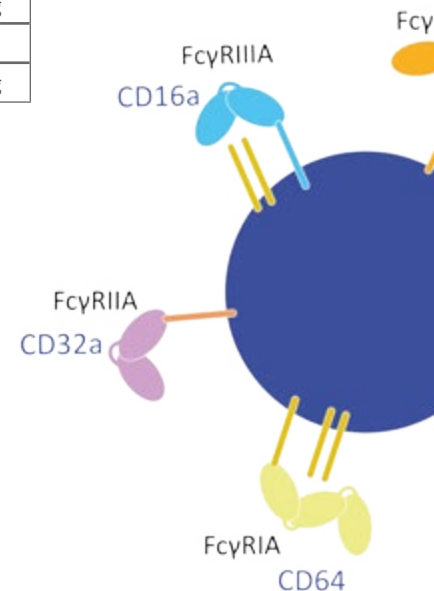
FcRn Proteins	Cat #	Size
<a href="#">AMS.FCM-H5286-50ug</a>	Human FcRn / FCGRT & B2M Heterodimer Protein	50ug
<a href="#">AMS.FCM-R5287-50ug</a>	Rat FcRn / FCGRT & B2M Heterodimer Protein	50ug
<a href="#">AMS.FCM-C5284-50ug</a>	Cynomolgus FcRn / FCGRT & B2M Heterodimer Protein	50ug
<a href="#">AMS.FCM-C5284-1mg</a>	Cynomolgus FcRn / FCGRT & B2M Heterodimer Protein	1mg
<a href="#">AMS.FCM-H5286-1mg</a>	Human FcRn / FCGRT & B2M Heterodimer Protein	1mg
<a href="#">AMS.FCM-R5287-1mg</a>	Rat FcRn / FCGRT & B2M Heterodimer Protein	1mg
<a href="#">AMS.FCM-M52W2-50ug</a>	Mouse FcRn / FCGRT & B2M Heterodimer Protein	50ug
<a href="#">AMS.FCM-M52W2-1mg</a>	Mouse FcRn / FCGRT & B2M Heterodimer Protein	1mg

## CD16 Proteins

Cat #	Description	Size
<a href="#">AMS.CDB-H5222-1mg</a>	Human Fc gamma RIIB / CD16b Protein	1mg
<a href="#">AMS.CDA-H5220-100ug</a>	Human FCGR3A / CD16a (F158) Protein	100ug
<a href="#">AMS.CDB-H5222-100ug</a>	Human Fc gamma RIIB / CD16b Protein	100ug
<a href="#">AMS.CDA-H5220-1mg</a>	Human FCGR3A / CD16a (F158) Protein	1mg
<a href="#">AMS.CD8-H52H4-1mg</a>	Human FCGR3A / CD16a (V158) Protein	1mg
<a href="#">AMS.CD8-H52H4-100ug</a>	Human FCGR3A / CD16a (V158) Protein	100ug
<a href="#">AMS.CDA-M52H8-1mg</a>	Mouse FCGR3A / CD16a Protein	1mg
<a href="#">AMS.CDA-M52H8-100ug</a>	Mouse FCGR3A / CD16a Protein	100ug

## CD32 Proteins

Cat #	Description	Size
<a href="#">AMS.CD1-H5223-100ug</a>	Human FcGR2A / CD32a (H131) Protein	100ug
<a href="#">AMS.CDB-H5228-1mg</a>	Human Fc gamma RIIB / CD32b Protein	1mg
<a href="#">AMS.CDA-H5221-1mg</a>	Human Fc gamma RIIA / CD32a (R131) Protein	1mg
<a href="#">AMS.CD1-H5223-1mg</a>	Human FcGR2A / CD32a (H131) Protein	1mg
<a href="#">AMS.CDB-H5228-100ug</a>	Human Fc gamma RIIB / CD32b Protein	100ug
<a href="#">AMS.CDA-H5221-100ug</a>	Human Fc gamma RIIA / CD32a (R131) Protein	100ug
<a href="#">AMS.CDB-M52H7-1mg</a>	Mouse Fc gamma RIIB / CD32b Protein	1mg
<a href="#">AMS.CDB-M52H7-100ug</a>	Mouse Fc gamma RIIB / CD32b Protein	100ug



## CD64 Proteins

Cat #	Description	Size
<a href="#">AMS.FCA-H52H2-1mg</a>	Human Fc gamma RI / CD64 Protein	1mg
<a href="#">AMS.CD4-M5227-1mg</a>	Mouse Fc gamma RI / CD64 Protein	1mg
<a href="#">AMS.FCA-H52H2-100ug</a>	Human Fc gamma RI / CD64 Protein	100ug
<a href="#">AMS.CD4-M5227-100ug</a>	Mouse Fc gamma RI / CD64 Protein	100ug

## CD23 Protein

Cat #	Description	Size
<a href="#">AMS.CD3-H5249-1mg</a>	Human CD23 / Fc epsilon RII Protein	1mg

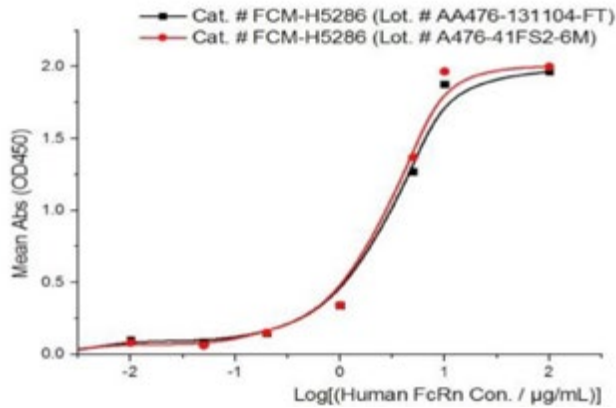


Fig 2. Immobilized Herceptin (Human IgG1) at 5 µg/mL (100 µL/well) can bind human FcRn (FCM-H5286) with a linear range of 0.2-5 µg/ml as determined in a functional ELISA.

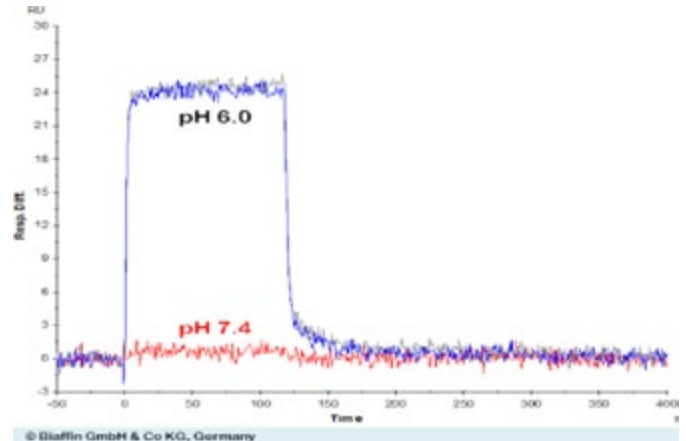
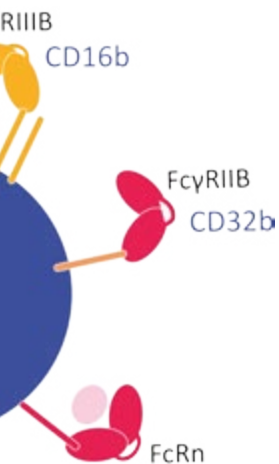


Fig 3. Immobilized human FcRn (FCM-H5286) can bind human IgG1 with an affinity constant of 1 µM as determined in a SPR assay (Biacore 2000). The data is generally provided by Biaffin GmbH & Co KG, Germany.

We also offer a variety of ready-to-use biotinylated Fc receptors. These proteins are produced using our in-house developed labeling techniques, which confers high bioactivity and minimal batch-to-batch variation.



## Biotinylated Proteins

Cat #	Description	Size
<a href="#">AMS.CD4-M52E8-200ug</a>	Mouse Fc gamma RI / CD64, Avi Tag (Avitag™)	200ug
<a href="#">AMS.FCM-H8286-200ug</a>	Human FcRn / FCGRT & B2M, ultra sensitivity (primary amine labeling)	200ug
<a href="#">AMS.CDA-H82E6-200ug</a>	Human Fc gamma RIIA / CD32a (H131), Avi Tag (Avitag™)	200ug
<a href="#">AMS.CDA-H82E9-200ug</a>	Human Fc gamma RIIIA / CD16a (V158), Avi Tag (Avitag™)	200ug
<a href="#">AMS.CDA-H82E8-200ug</a>	Human Fc gamma RIIIA / CD16a (F158), Avi Tag (Avitag™)	200ug
<a href="#">AMS.FCM-H82W4-200ug</a>	Human FcRn / FCGRT & B2M, Avi Tag (Avitag™)	200ug
<a href="#">AMS.CDA-H82E7-200ug</a>	Human Fc gamma RIIA / CD32a (R131), Avi Tag (Avitag™)	200ug
<a href="#">AMS.CDB-H82E0-200ug</a>	Human Fc gamma RIIB / CD32b, Avi Tag (Avitag™)	200ug
<a href="#">AMS.CDB-H82E1-200ug</a>	Human Fc gamma RIIIB / CD16b, Avi Tag (Avitag™)	200ug
<a href="#">AMS.CDB-M82E8-200ug</a>	Mouse Fc gamma RIIB / CD32b, Avi Tag (Avitag™)	200ug
<a href="#">AMS.FCA-H82E2-200ug</a>	Human Fc gamma RI / CD64, Avi Tag (Avitag™)	200ug
<a href="#">AMS.FCM-C82W5-25ug</a>	Cynomolgus FcRn / FCGRT & B2M, Avi Tag (Avitag™)	25ug
<a href="#">AMS.FCM-M82W6-200ug</a>	Mouse FcRn / FCGRT & B2M, Avi Tag (Avitag™)	200ug
<a href="#">AMS.FCM-R82W7-200ug</a>	Rat FcRn / FCGRT & B2M, Avi Tag (Avitag™)	200ug



CONTACT US:

AMS Biotechnology (Europe) Ltd - UK & Rest of World  
184 Park Drive, Milton Park, Abingdon OX14 4SE, U.K.  
T: +44 (0) 1235 828 200 | F: +44 (0) 1235 820 482

AMS Biotechnology (Europe) Ltd – Switzerland  
Centro Nord-Sud 2E CH-6934 Bioggio-Lugano.  
T: +41 (0) 91 604 55 22 | F: +41 (0) 91 605 17 85

AMS Biotechnology (Europe) Ltd - Deutschland  
T: +49 (0) 69 779099 | F: +49 (0) 69 13376880

amsbio LLC - United States  
1035 Cambridge Street,  
Cambridge, MA 02141  
T: +1 (617) 945-5033 or +1.(800) 987-0985 | F: +1 (617) 945-8218

**View our full range of over 500 Fc Receptor family Proteins at:**

**<http://www.amsbio.com/fc-receptor-family-proteins.aspx>**