

## Mouse anti-Human FCGRT/FcRn Monoclonal Antibody | anti-FCGRT antibody

FCGRT/FcRn (IgG Transporter)

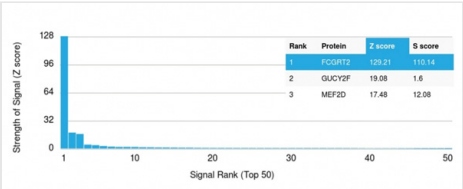
|                               |                      |                            |                                             |
|-------------------------------|----------------------|----------------------------|---------------------------------------------|
| CATALOG #<br><b>AAA214969</b> | HOST<br><b>Mouse</b> | REACTIVITY<br><b>Human</b> | APPLICATIONS<br><b>Immunohistochemistry</b> |
|-------------------------------|----------------------|----------------------------|---------------------------------------------|

### PRODUCT SYNONYMS

FCGRT/FcRn; Monoclonal Antibody; FCGRT/FcRn (IgG Transporter); Fc fragment of IgG; receptor transporter; alpha; FCGRT; FCRN; alpha chain; IgG Fc fragment receptor transporter alpha chain; IgG Gc receptor; IgG receptor FcRn large subunit p51; Immunoglobulin receptor; intestinal; heavy chain; Neonatal Fc receptor; anti-FCGRT antibody

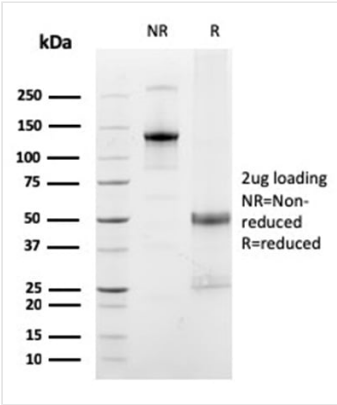
### PRODUCT SPECIFICATIONS

|                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                            | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Reactivity                                      | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Clonality                                       | Monoclonal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Isotype                                         | IgG2b, kappa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Clone Number                                    | FCGRT/2932                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Specificity                                     | This gene encodes a receptor that binds the Fc region of monomeric immunoglobulin G. FCGRT is present in the intestinal epithelium of neonates and mediates the selective uptake of immunoglobulin G (IgG) in mothers' milk, thereby helping newborn to acquire passive immunity. FCGRT is comprised of a heavy chain and -2-Microglobulin. FCGRT localizes in endosomes of vascular endothelial cells and selectively recycles IgG to the cell surface, thus protecting IgG from lysosomal degradation. |
| Purity/Purification                             | Purified Ab with BSA and Azide at 200ug/ml OR Purified Ab WITHOUT BSA and Azide at 1.0mg/ml                                                                                                                                                                                                                                                                                                                                                                                                              |
| Form/Format                                     | 200ug/ml of Ab Purified from Bioreactor Concentrate by Protein A/G. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.                                                                                                                                                                                                                                                                                                                                   |
| Sequence Length                                 | 365                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Applicable Applications for anti-FCGRT antibody | IHC (Immunohistochemistry)                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Positive Control                                | THP1 or HepG2 cells. Cerebellum or Testis.                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Immunogen                                       | Recombinant fragment of human FCGRT protein (around aa 24-215) (Exact sequence is proprietary)                                                                                                                                                                                                                                                                                                                                                                                                           |
| Cellular Localization                           | Cell Surface and Cytoplasmic                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Hu-chromosome Location                          | 19q13.33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Preparation and Storage                         | Antibody with azide: store at 2 to 8 degree C.<br>Antibody without azide: store at -20 to -80 degree C.<br>Antibody is stable for 24 months. Non-hazardous. No MSDS required.                                                                                                                                                                                                                                                                                                                            |



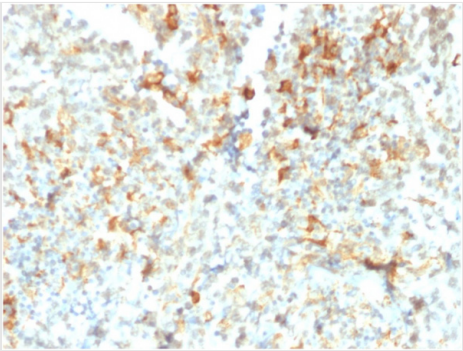
Application Data

Analysis of Protein Array containing >19,000 full-length human proteins using FCGR2 Mouse Monoclonal Antibody (FCGR2/2932) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProt™ array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If targets on HuProt™ are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-score. S-score therefore represents the relative target specificity of a MAb to its intended target. A MAb is considered to be specific to its intended target, if the MAb has an S-score of at least 2.5. For example, if a MAb binds to protein X with a Z-score of 43 and to protein Y with a Z-score of 14, then the S-score for the binding of that MAb to protein X is equal to 29.

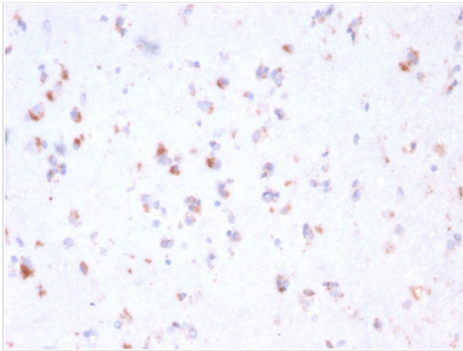


SDS-PAGE

SDS-PAGE Analysis Purified FCGR2 Mouse Monoclonal Antibody (FCGR2/2932). Confirmation of Integrity and Purity of Antibody.



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded human Testicular Cancer stained with FCGR2 Mouse Monoclonal Antibody (FCGR2/2932).



IHC (Immunohistochemistry)  
Formalin-fixed, paraffin-embedded human Cerebellum stained with FCGR2 Mouse Monoclonal Antibody (FCGR2/2932).

ADDITIONAL INFORMATION

|            |                                                                                                                                                                   |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| References | Kristi Baker et. al. Neonatal Fc Receptor Expression in Dendritic Cells Mediates Protective Immunity against Colorectal Cancer. Immunity 39 (6); 2013; 1095-1107. |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|

NCBI AND UNIPROT INFORMATION

|                                  |                                             |
|----------------------------------|---------------------------------------------|
| NCBI GI #                        | 209862839                                   |
| NCBI GeneID                      | 2217                                        |
| NCBI Accession #                 | NP_001129491.1                              |
| NCBI GenBank Nucleotide #        | NP_001129491.1                              |
| UniProt Accession #              | P55899                                      |
| Molecular Weight                 | 46kDa                                       |
| NCBI Official Full Name          | IgG receptor FcRn large subunit p51         |
| NCBI Official Synonym Full Names | Fc fragment of IgG receptor and transporter |
| NCBI Official Symbol             | FCGRT                                       |
| NCBI Official Synonym Symbols    | FCRN; alpha-chain                           |
| NCBI Protein Information         | IgG receptor FcRn large subunit p51         |

|                            |                                     |
|----------------------------|-------------------------------------|
| UniProt Protein Name       | IgG receptor FcRn large subunit p51 |
| UniProt Gene Name          | FCGRT                               |
| UniProt Synonym Gene Names | FCRN; FcRn                          |
| UniProt Entry Name         | FCGRN_HUMAN                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/monoclonal/fcgrt-fcrn-antibody-clone-fcgrt-2932-immunohistochemistry-elisa/214969>