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Datasheet for ABIN6939380  
**anti-FcRn antibody (AA 24-215)**

4 Images

### Overview

|                      |                                                                          |
|----------------------|--------------------------------------------------------------------------|
| Quantity:            | 100 µg                                                                   |
| Target:              | FcRn                                                                     |
| Binding Specificity: | AA 24-215                                                                |
| Reactivity:          | Human                                                                    |
| Host:                | Mouse                                                                    |
| Clonality:           | Monoclonal                                                               |
| Conjugate:           | This FcRn antibody is un-conjugated                                      |
| Application:         | Immunohistochemistry (IHC), Immunostaining (ISt), Staining Methods (StM) |

### Product Details

|               |                                                                                                |
|---------------|------------------------------------------------------------------------------------------------|
| Immunogen:    | Recombinant fragment of human FCGRT protein (around aa 24-215) (Exact sequence is proprietary) |
| Clone:        | FCGRT-2932                                                                                     |
| Isotype:      | IgG2b kappa                                                                                    |
| Purification: | Purified by Protein A/G                                                                        |

### Target Details

|                   |                                                                                      |
|-------------------|--------------------------------------------------------------------------------------|
| Target:           | FcRn                                                                                 |
| Alternative Name: | FCGRT ( <a href="#">FcRn Products</a> )                                              |
| Background:       | This gene encodes a receptor that binds the Fc region of monomeric immunoglobulin G. |

## Target Details

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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  $\alpha$ -2-Microglobulin. FCGRT localizes in endosomes of vascular endothelial cells and selectively recycles IgG to the cell surface, thus protecting IgG from lysosomal degradation.

|                   |                                                                                                                            |
|-------------------|----------------------------------------------------------------------------------------------------------------------------|
| Molecular Weight: | 46kDa                                                                                                                      |
| Gene ID:          | 2217                                                                                                                       |
| UniProt:          | <a href="#">P55899</a>                                                                                                     |
| Pathways:         | <a href="#">Regulation of Leukocyte Mediated Immunity</a> , <a href="#">Positive Regulation of Immune Effector Process</a> |

## Application Details

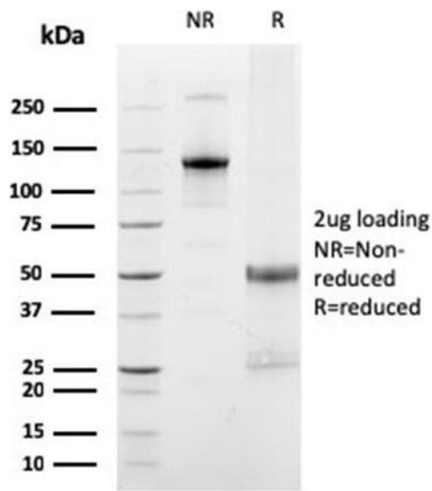
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|                    |                                                                                                                                                                                                                                                                                                                                                                                                    |
|--------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Application Notes: | Positive Control: THP1 or HepG2 cells. Cerebellum or Testis.<br>Known Application: Immunohistochemistry (Formalin-fixed) (2-4 $\mu$ g/mL for 30 minutes at RT)(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)Optimal dilution for a specific application should be determined. |
| Restrictions:      | For Research Use only                                                                                                                                                                                                                                                                                                                                                                              |

## Handling

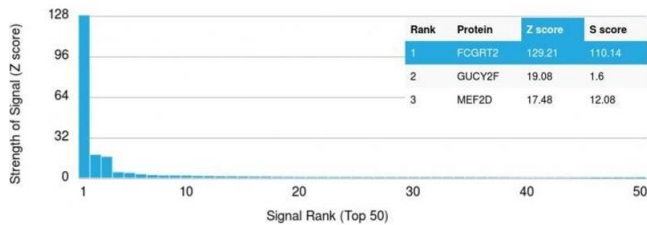
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|                    |                                                                                                                                                             |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Concentration:     | 200 $\mu$ g/mL                                                                                                                                              |
| Buffer:            | 10 mM PBS with 0.05 % BSA & 0.05 % azide.                                                                                                                   |
| Preservative:      | Sodium azide                                                                                                                                                |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.                                      |
| Storage:           | 4 °C, -80 °C                                                                                                                                                |
| Storage Comment:   | Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required. |
| Expiry Date:       | 24 months                                                                                                                                                   |



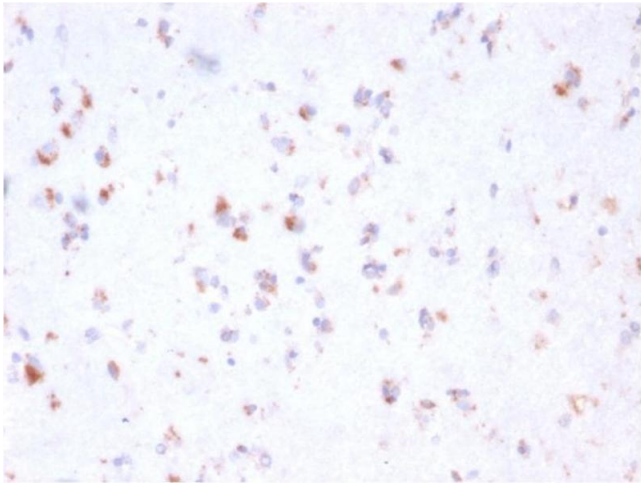
### SDS-PAGE

**Image 1.** SDS-PAGE Analysis Purified FCGR2 Mouse Monoclonal Antibody (FCGRT/2932). Confirmation of Integrity and Purity of Antibody.



### Protein Array

**Image 2.** Analysis of Protein Array containing >19,000 full-length human proteins using FCGR2 Mouse Monoclonal Antibody (FCGRT/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 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.



### Immunohistochemistry

**Image 3.** Formalin-fixed, paraffin-embedded human Cerebellum stained with FCGRT Mouse Monoclonal Antibody (FCGRT/2932).

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN6939380.