

## anti-Mouse FCGRT Polyclonal Antibody | anti-FCGRT antibody

Anti-FCGRT Antibody

|                              |                            |                                                                  |
|------------------------------|----------------------------|------------------------------------------------------------------|
| CATALOG #<br><b>AAA46400</b> | REACTIVITY<br><b>Mouse</b> | APPLICATIONS<br><b>ELISA, Immunohistochemistry, Western Blot</b> |
|------------------------------|----------------------------|------------------------------------------------------------------|

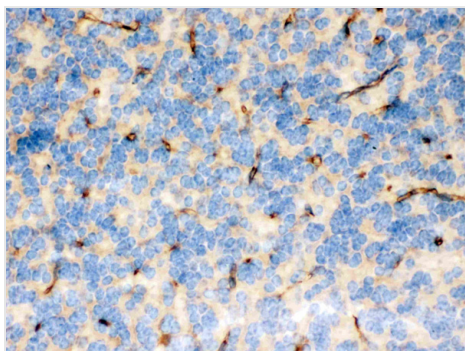
### PRODUCT SYNONYMS

FCGRT; Polyclonal Antibody; Anti-FCGRT Antibody; IgG receptor FcRn large subunit p51; Alpha chain; Fc fragment of IgG; receptor transporter; alpha; FCGRN\_HUMAN; FcRn alpha chain; FcRn; FCRN; alpha chain; IgG Fc fragment receptor transporter alpha chain; IgG Gc receptor; IgG receptor FcRn large subunit p51 precursor; Immunoglobulin receptor; intestinal; heavy chain; Neonatal Fc receptor; Fc fragment of IgG receptor and transporter; anti-FCGRT antibody

### PRODUCT SPECIFICATIONS

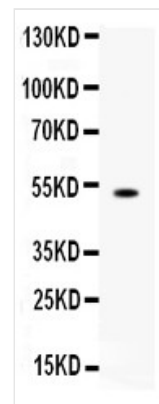
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|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity                                      | Mouse                                                                                                                                                                                               |
| Clonality                                       | Polyclonal                                                                                                                                                                                          |
| Purity/Purification                             | Immunogen Affinity Purified                                                                                                                                                                         |
| Form/Format                                     | Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05mg NaN <sub>3</sub> .                                                                             |
| Sequence Length                                 | 365                                                                                                                                                                                                 |
| Applicable Applications for anti-FCGRT antibody | ELISA, IHC (Immunohistochemistry), WB (Western Blot)                                                                                                                                                |
| Immunogen                                       | E Coli-derived mouse FCGRT recombinant protein (Position: Q54-D291). Mouse FCGRT shares 70.2% and 92.4% amino acid (aa) sequence identity with human and rat FCGRT, respectively.                   |
| Ig Type                                         | Rabbit IgG                                                                                                                                                                                          |
| Reconstitution                                  | Add 0.2ml of distilled water will yield a concentration of 500ug/ml.                                                                                                                                |
| Preparation and Storage                         | At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing. |

### IMAGES



#### IHC (Immunohistochemistry)

FCGRT was detected in paraffin-embedded sections of mouse brain tissues using rabbit anti-FCGRT Antigen Affinity purified polyclonal antibody at 1 ug/mL. The immunohistochemical section was developed using SABC method.



#### WB (Western Blot)

Western blot analysis of FCGRT expression in mouse liver extract (lane 1). FCGRT at 50KD was detected using rabbit anti- FCGRT Antigen Affinity purified polyclonal antibody at 0.5ug/mL. The blot was developed using chemiluminescence (ECL) method.

ADDITIONAL INFORMATION

|                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-----------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-FCGRT antibody | <p>Description: Rabbit IgG polyclonal antibody for IgG receptor FcRn large subunit p51(FCGRT) detection. Tested with WB, IHC-P, ELISA in Mouse.</p> <p>Background: IgG receptor FcRn large subunit p51 is a protein that in humans is encoded by the FCGRT gene. This gene encodes a receptor that binds the Fc region of monomeric immunoglobulin G. The encoded protein transfers immunoglobulin G antibodies from mother to fetus across the placenta. This protein also binds immunoglobulin G to protect the antibody from degradation. In addition, it is postulated that long-range cis inactivation of the FCGRT gene is responsible for hypercatabolism of IgG in myotonic dystrophy. The FCGRT gene is closely situated to the DMPK gene, which is mutant in DM.</p>                                        |
| References                                          | <p>1. Chaudhury C, Mehnaz S, Robinson JM, Hayton WL, Pearl DK, Roopenian DC, Anderson CL (February 2003). "The major histocompatibility complex-related Fc receptor for IgG (FcRn) binds albumin and prolongs its lifespan". J. Exp. Med. 197 (3): 315-22. 2. Junghans, R. P., Ebralidze, A., Tiwari, B. Does (CUG)n repeat in DMPK mRNA 'paint' chromosome 19 to suppress distant genes to create the diverse phenotype of myotonic dystrophy? A new hypothesis of long-range cis autosomal inactivation. Neurogenetics 3: 59-67, 2001. 3. Kandil E, Egashira M, Miyoshi O, Niikawa N, Ishibashi T, Kasahara M, Miyosi O (July 1996). "The human gene encoding the heavy chain of the major histocompatibility complex class I-like Fc receptor (FCGRT) maps to 19q13.3". Cytogenet. Cell Genet. 73 (1-2): 97-8.</p> |

NCBI AND UNIPROT INFORMATION

|                                  |                                           |
|----------------------------------|-------------------------------------------|
| NCBI GI #                        | 170172528                                 |
| NCBI GeneID                      | 14132                                     |
| NCBI Accession #                 | NP_034319.2                               |
| NCBI GenBank Nucleotide #        | NM_010189.3                               |
| UniProt Accession #              | Q61559; Q9QUR0; Q9R2A5                    |
| Molecular Weight                 | 40,093 Da                                 |
| NCBI Official Full Name          | IgG receptor FcRn large subunit p51       |
| NCBI Official Synonym Full Names | Fc receptor, IgG, alpha chain transporter |
| NCBI Official Symbol             | Fcgrt                                     |
| NCBI Official Synonym Symbols    | FcRn                                      |
| 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_MOUSE                               |

**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/polyclonal/fcgrt-antibody-immunohistochemistry-western-blot-elisa/46400>