

36-2286: Anti-FCGRT / FcRn (IgG Transporter) Monoclonal Antibody(Clone: FCGRT/2932)

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| Clonality : | Monoclonal |
| Clone Name : | FCGRT/2932 |
| Application : | IHC |
| Reactivity : | Human |
| Gene : | FCGRT |
| Gene ID : | 2217 |
| Uniprot ID : | P55899 |
| Alternative Name : | 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 |
| Isotype : | Mouse IgG2b, kappa |
| Immunogen Information : | Recombinant fragment of human FCGRT protein (around aa 24-215) (Exact sequence is proprietary) |

Description

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

Product Info

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| Amount : | 20 μ g / 100 μ g |
| Content : | 200 μ g/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. |
| Storage condition : | 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. |

Application Note

Immunohistochemistry (Formalin-fixed) (2-4 μ g/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes);

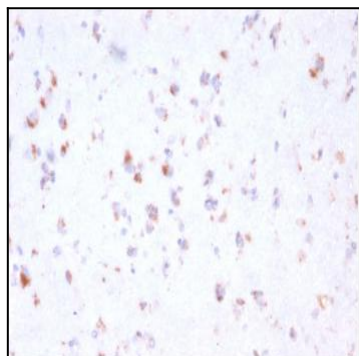


Fig. 1: Formalin-fixed, paraffin-embedded human Cerebellum stained with FCGRT Mouse Monoclonal Antibody (FCGRT/2932).

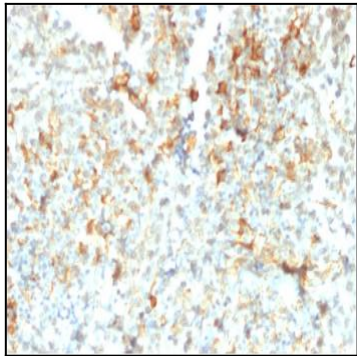


Fig. 2: Formalin-fixed, paraffin-embedded human Testicular Cancer stained with FCGR2 Mouse Monoclonal Antibody (FCGRT/2932).

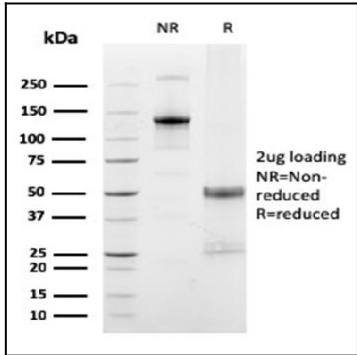


Fig. 3: SDS-PAGE Analysis Purified FCGR2 Mouse Monoclonal Antibody (FCGRT/2932). Confirmation of Integrity and Purity of Antibody.

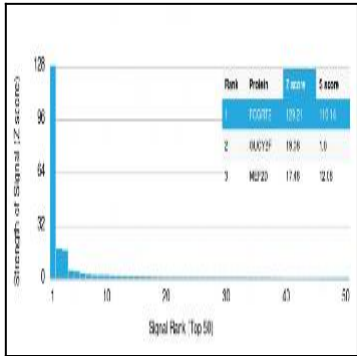


Fig. 4: Analysis of Protein Array containing >19,000 full-length human proteins using FCGR2 Mouse Monoclonal Antibody (FCGRT/2932) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody) produces when binding to a particular protein on the HuProtTM 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 HuProtTM 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.