

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

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	FCGRT/2932
<b>Application :</b>	IHC
<b>Reactivity :</b>	Human
<b>Gene :</b>	FCGRT
<b>Gene ID :</b>	2217
<b>Uniprot ID :</b>	P55899
<b>Alternative Name :</b>	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
<b>Isotype :</b>	Mouse IgG2b, kappa
<b>Immunogen Information :</b>	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  $\alpha$ -2-Microglobulin. FCGRT localizes in endosomes of vascular endothelial cells and selectively recycles IgG to the cell surface, thus protecting IgG from lysosomal degradation.

### Product Info

<b>Amount :</b>	20 $\mu$ g / 100 $\mu$ g
<b>Content :</b>	200 $\mu$ 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.
<b>Storage condition :</b>	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 $\mu$ 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);

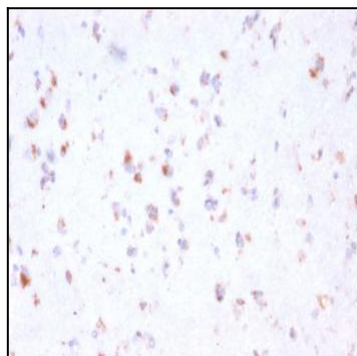


Fig. 1: Formalin-fixed, paraffin-embedded human Cerebellum stained with FCGRT Mouse Monoclonal Antibody (FCGRT/2932).

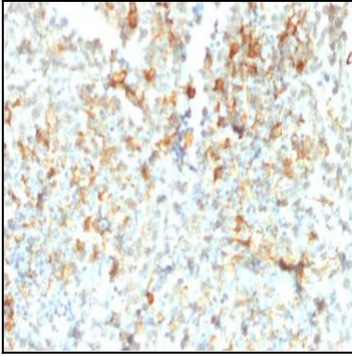


Fig. 2: Formalin-fixed, paraffin-embedded human Testicular Cancer stained with FCGR2 Mouse Monoclonal Antibody (FCGR2/2932).

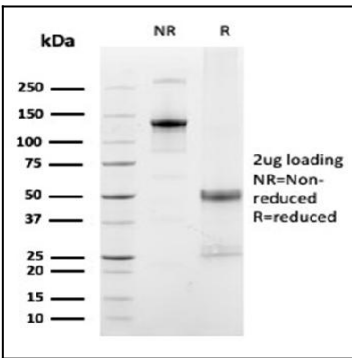


Fig. 3: SDS-PAGE Analysis Purified FCGR2 Mouse Monoclonal Antibody (FCGR2/2932). Confirmation of Integrity and Purity of Antibody.

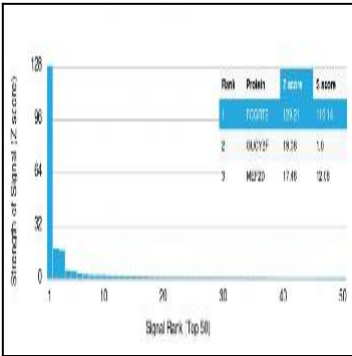


Fig. 4: Analysis of Protein Array containing >19,000 full-length human proteins using FCGR2 Mouse Monoclonal Antibody (FCGR2/2932) Z- and S- Score: The Z-score represents the strength of a signal that a monoclonal antibody (MAb) (in combination with a fluorescently-tagged anti-IgG secondary antibody)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