

Product Datasheet

FCGRT Antibody (orb2643251)

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.
Species/Host	Mouse
Reactivity	Human
Conjugation	Unconjugated
Tested Applications	IHC-P
Immunogen	A recombinant human partial protein (amino acids 24-215) was used as the immunogen for the FCGRT antibody.
Preservatives	0.2 mg/ml with 0.1 mg/ml rAlbumin (US sourced), 0.05% sodium azide
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Note	For research use only
Application notes	Optimal dilution of the antibody should be determined by the researcher.
Formula	0.2 mg/ml with 0.1 mg/ml BSA (US sourced), 0.05% sodium azide
Isotype	Mouse IgG2b, kappa
Clonality	Monoclonal
Clone Number	FCGRT/2932
Purity	Protein G affinity chromatography

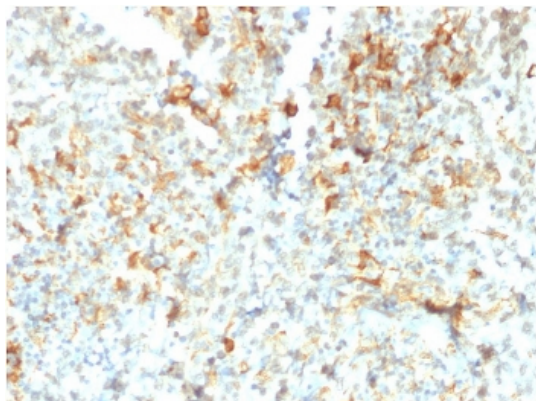
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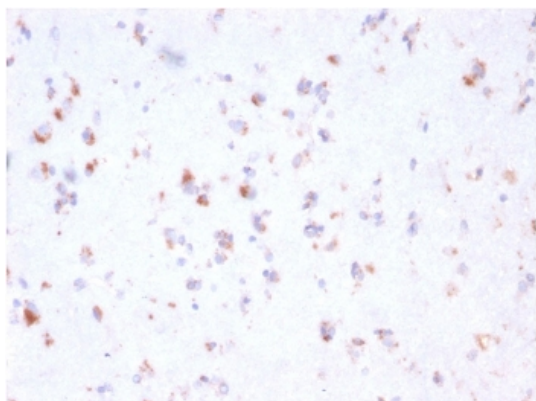
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Uniprot ID	P55899
Hazard Information	This FCGRT antibody is available for research use only.
Dilution Range	Immunohistochemistry (FFPE): 2-4ug/ml
Expiration Date	12 months from date of receipt.



IHC staining of FFPE human testicular cancer with FCGRT antibody (clone FCGRT/2932). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.



IHC staining of FFPE human cerebellum with FCGRT antibody (clone FCGRT/2932). HIER: boil tissue sections in pH9 10mM Tris with 1mM EDTA for 10-20 min and allow to cool before testing.

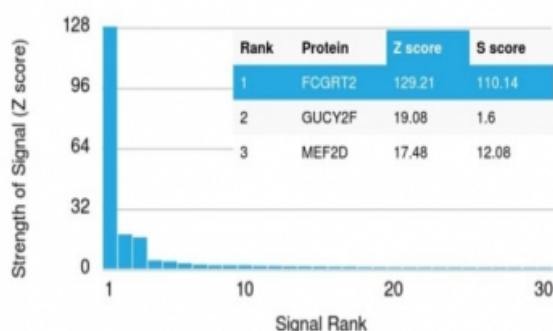
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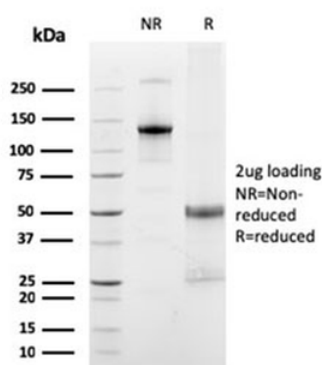
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Human Protein Microarray Specificity Validation



Analysis of HuProt (TM) microarray containing more than 19000 full-length human proteins using FCGRT antibody (clone FCGRT/2932). These results demonstrate the foremost specificity of the FCGRT/2932 mAb. Z- and S- score: The Z-score represents the strength of a signal that an antibody (in combination with a fluorescently-tagged anti-IgG secondary Ab) produces when binding to a particular protein on the HuProt (TM) array. Z-scores are described in units of standard deviations (SD's) above the mean value of all signals generated on that array. If the targets on the HuProt (TM) are arranged in descending order of the Z-score, the S-score is the difference (also in units of SD's) between the Z-scores. The S-score therefore represents the relative target specificity of an Ab to its intended target.



SDS-PAGE analysis of purified, BSA-free FCGRT antibody (clone FCGRT/2932) as confirmation of integrity and purity.

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