

Anti-FCGRT Polyclonal Antibody

Product Details

Ig Type:	IgG
Reactivity:	Human, Mouse (predicted: Rat, Dog, Sheep)
Molecular Weight:	Theoretical: 37 kDa. Actual: 38 kDa.
Purification:	Protein A purified

Applications

Verified Activity:	1. Blank control (blue): U-87Mg (fixed with 2% paraformaldehyde (10 min)). Primary Antibody: Rabbit AntiFCGRT antibody (TMAB-05947), Dilution: 3 µg in 100 µL 1X PBS containing 0.5% BSA; Isotype Control Antibody: Rabbit IgG (orange), used under the same conditions); Secondary Antibody: Goat anti-rabbit IgG-PE (white blue), Dilution: 1: 200 in 1 X PBS containing 0.5% BSA. 2. Sample: bladder (Mouse) Lysate at 40 µg Primary: Anti-FCGRT (TMAB-05947) at 1/300 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 38 kD Observed band size: 38 kD
Application:	WB, FCM
Recommended	WB: 1:500-2000; FCM: 3µg/Test

Properties

Stability & Storage:	Store at 2°C-8°C for 1 month. Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.
Shipping:	Shipping with blue ice.

Antigen Details

Immunogen:	KLH conjugated synthetic peptide: human FCGRT/FcRn
Antigen Species:	Human
Gene ID:	2217
Uniprot ID:	P55899

Research Background

FcRn present in the intestinal epithelium of neonatal mice and rats mediates the selective uptake of immunoglobulin G (IgG) in mothers' milk, thereby helping newborn animals to acquire passive immunity. FcRn (also designated FCGRT, Brambell receptor, FcRn α chain, IgG Gc receptor and neonatal Fc-receptor) is comprised of a heavy chain and β -2-Microglobulin. FcRn heavy chain shows approximately 35% amino acid identity to an MHC class I molecule. FcRn localizes in endosomes of vascular endothelial cells and selectively recycles IgG to the cell surface, thus protecting IgG from lysosomal catabolism. This protection mechanism is a major constituent for ensuring IgG are the longest lived of all plasma proteins.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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