

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse FCRN in direct ELISAs and Western blots. In direct ELISAs, approximately 6% cross-reactivity with recombinant human FCRN is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived mouse FCRN Ser22-Ser301 Accession # AAH03786
Conjugate	Alexa Fluor 405 Excitation Wavelength: 405 nm Emission Wavelength: 421 nm
Formulation	Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

CyTOF-ready	Optimal dilution of this antibody should be experimentally determined.
Western Blot	Optimal dilution of this antibody should be experimentally determined.
Intracellular Staining by Flow Cytometry	Optimal dilution of this antibody should be experimentally determined.

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied

BACKGROUND

FcRn (IgG receptor FcRn large subunit p51/α-chain) is a 44-52 kDa member of the Ig superfamily. In mouse, it is expressed by intestinal epithelium of neonates and fetal yolk sac endoderm during pregnancy. Together with p14/β₂-Microglobulin, FcRn forms an MHC I-like noncovalent heterodimer termed the FcRn complex. In rodent, FcRn transports IgG in milk into the intestine, and IgG from the mother's blood into the mouse via endodermal FcRn linked to a special FcγRIIb macrophage receptor. It is also expressed by select macrophages and DCs, and participates in endosomal-associated antigen presentation to CD4⁺ T cells. Mature mouse FcRn is a 344 amino acid (aa) type I transmembrane glycoprotein. It contains a 276 aa extracellular region (aa 22-297) that contains an Ig-like domain (aa 201-288). The FcRn complex forms a homodimer when binding IgG. One potential splice variant shows a four aa insertion after Gly109. Over aa 22-301 of the splice variant (GenBank #:AAH03786), mouse FcRn shares 91% and 68% aa identity with rat and human FcRn, respectively.

PRODUCT SPECIFIC NOTICES

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