

For Research Use Only

# FcRn Monoclonal antibody

Catalog Number: 67944-1-Ig



## Basic Information

Catalog Number:

67944-1-Ig

Size:

1000 µg/ml

Source:

Mouse

Isotype:

IgG1

Immunogen Catalog Number:

AG31173

GenBank Accession Number:

BC008734

GeneID (NCBI):

2217

UNIPROT ID:

P55899

Full Name:

Fc fragment of IgG, receptor, transporter, alpha

Calculated MW:

40 kDa

Observed MW:

35-40 kDa

Purification Method:

Protein G purification

CloneNo.:

2H4A5

Recommended Dilutions:

WB 1:2000-1:10000

IHC 1:5000-1:20000

## Applications

Tested Applications:

IHC, WB, ELISA

Species Specificity:

Human

**Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (\*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0**

Positive Controls:

WB : HEK-293 cells, THP-1 cells

IHC : human liver tissue,

## Background Information

The neonatal Fc receptor for IgG (FcRn) is a membrane-associated receptor which acts as a key determinant of IgG homeostasis. FcRn is similar in structure to major histocompatibility class I molecules. It is a heterodimer composed of an alpha chain associated with beta 2-microglobulin. FcRn transfers IgG from the mother to the fetus across the placenta and the proximal small intestine. In addition, throughout life, FcRn protects IgG from degradation and thus regulates the serum half-life of IgG (PMID: 17703228).

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

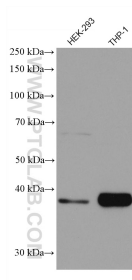
T: 4006900926

E: [Proteintech-CN@ptglab.com](mailto:Proteintech-CN@ptglab.com)

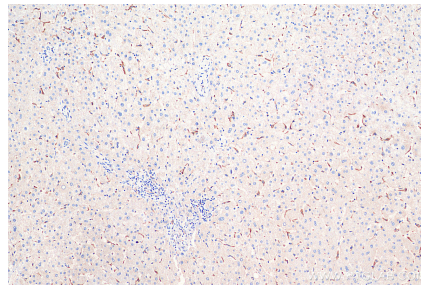
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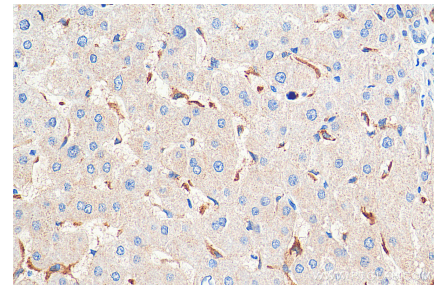
## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 67944-1-Ig (FcRn antibody) at dilution of 1:5000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67944-1-Ig (FcRn antibody) at dilution of 1:10000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 67944-1-Ig (FcRn antibody) at dilution of 1:10000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).