

For Research Use Only

# FcRn Monoclonal antibody

Catalog Number: 67944-1-Ig



## Basic Information

Catalog Number: 67944-1-Ig	GenBank Accession Number: BC008734	Purification Method: Protein G purification
Size: 150ul , Concentration: 1000 ug/ml by Nanodrop;	GeneID (NCBI): 2217	CloneNo.: 2H4A5
Source: Mouse	UNIPROT ID: P55899	Recommended Dilutions: WB 1:2000-1:10000 IHC 1:5000-1:20000
Isotype: IgG1	Full Name: Fc fragment of IgG, receptor, transporter, alpha	
Immunogen Catalog Number: AG31173	Calculated MW: 40 kDa	
	Observed MW: 35-40 kDa	

## Applications

Tested Applications: WB, IHC, ELISA	Positive Controls:
Species Specificity: Human	WB : HEK-293 cells, THP-1 cells
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	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 a alpha chain associated with beta2-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

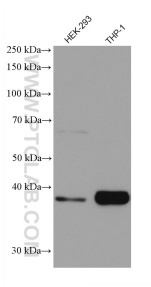
Storage:  
Store at -20°C. Stable for one year after shipment.  
Storage Buffer:  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

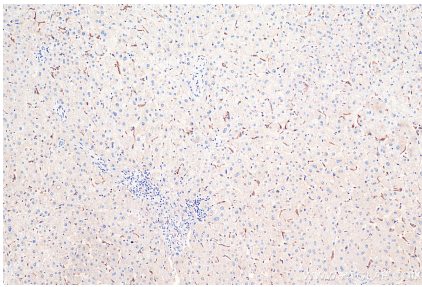
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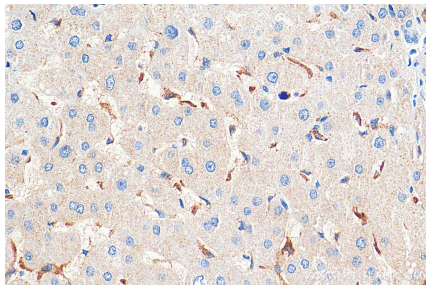
# Selected Validation Data



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).