

For Research Use Only

FcRn-Specific Polyclonal antibody

Catalog Number: 16190-1-AP

Featured Product

7 Publications



Basic Information

Catalog Number:

16190-1-AP

Size:

150ul, Concentration: 550 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM_004107

GeneID (NCBI):

2217

UNIPROT ID:

P55899

Full Name:

Fc fragment of IgG, receptor, transporter, alpha

Calculated MW:

40 kDa

Observed MW:

40 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:500-1:2000

Applications

Tested Applications:

WB, IHC, ELISA

Cited Applications:

WB, IF, IP

Species Specificity:

human

Cited Species:

human, pig, canine, monkey

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 : THP-1 cells, human placenta tissue

IHC : human spleen tissue, 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).

Notable Publications

Author	Pubmed ID	Journal	Application
Struble Evi Budo EB	22991567	Clin Dev Immunol	WB
Yanqun Xu	26578159	Placenta	WB,IF
Zhonghao Li	36498935	Int J Mol Sci	WB

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

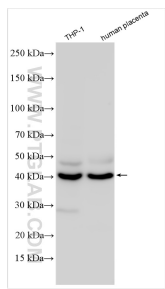
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

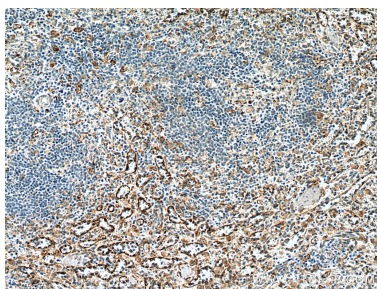
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

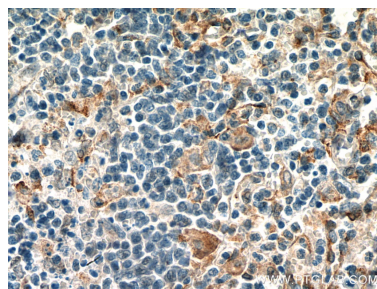
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 16190-1-AP (FcRn-Specific antibody) at dilution of 1:500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 16190-1-AP (FcRn-Specific antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human spleen tissue slide using 16190-1-AP (FcRn-Specific antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).