For Research Use Only

# Prealbumin/transthyretin Monoclonal antibody

Catalog Number:66108-1-Ig

4 Publications

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## Basic Information

Catalog Number:
66108-1-Ig

Size:
150ul , Concentration: 1000 ug/ml by Nanodrop;

Source:
Mouse

Isotype:
IgG2a

Immunogen Catalog Number:
AG19232

GenBank Accession Number:
BC020791

GeneID (NCBI):
7276

UNIPROT ID:
P02766

Full Name:
transthyretin

Calculated MW:
147 aa, 16 kDa

Observed MW:
14-16 kDa, 28-33 kDa

Purification Method:
Protein A purification

CloneNo.:
1H8C4

Recommended Dilutions:
WB: 1:500-1:2000
IHC: 1:20-1:200
FC (Intra): 0.40 ug per 10^6 cells in a 100 ul suspension

## Applications

Tested Applications:
WB, IHC, FC (Intra), ELISA

Cited Applications:
WB

Species Specificity:
human, mouse

Cited Species:
human, mouse

***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 : Human brain, fetal tissue, human heart tissue

IHC : human liver tissue, mouse liver tissue

FC (Intra) : PC-12 cells,

## Background Information

Transthyretin (TTR) is a plasma transport protein for thyroxine and retinol, through the association with retinol-binding protein. It is a homotetrameric protein synthesized mainly in liver, choroid plexus, retinal pigment epithelium, and pancreas.Within the CNS, TTR is the only known protein synthesized solely by the choroid plexus. Mutant and wildtype TTR give rise to various forms of amyloid deposition (amyloidosis). Defects in TTR are the cause of amyloidosis transthyretin-related (AMYL-TTR),hyperthyroxinemia dystransthyretinemic euthyroidal (HTDE) and carpal tunnel syndrome type 1 (CTS1). In addition, positive immunostaining for TTR has been reported as a sensitive diagnostic marker of choroid plexus tumors. TTR can be expressed as monomer (14-16 kDa), dimmer (28-33 kDa), or tetramer around 55-60 kDa. (PMID: 22103483)

## Notable Publications

| Author | Pubmed ID | Journal | Application |
|---|---|---|---|
| Trung Duc Nguyen | 35440644 | Nat Commun | WB |
| Alana Maerivoet | 40899588 | Amyloid | WB |
| Mahlon Collins | 40607987 | J Neuropathol Exp Neurol | |

## Storage

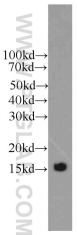
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

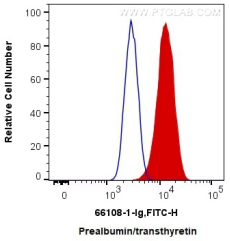
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

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

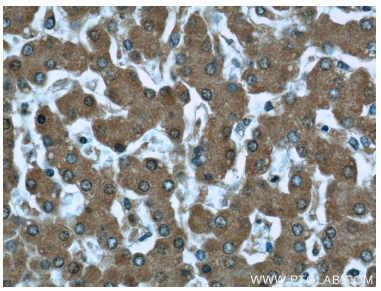
## Selected Validation Data




human brain tissue were subjected to SDS PAGE followed by western blot with 66108-1-Ig (Prealbumin/transthyretin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.




1X10^6 PC-12 cells were intracellularly stained with 0.4 ug Anti-Human Prealbumin/transthyretin (66108-1-Ig, Clone:1H8C4) and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer.



Immunohistochemical analysis of paraffin-embedded human liver tissue slide using 66108-1-Ig (Prealbumin/transthyretin antibody at dilution of 1:50.