

For Research Use Only

# CHAT Monoclonal antibody

Catalog Number: 66816-1-Ig



## Basic Information

Catalog Number:

66816-1-Ig

Size:

1000 ug/ml

Source:

Mouse

Isotype:

IgG2b

Immunogen Catalog Number:

AG19602

GenBank Accession Number:

BC130617

GeneID (NCBI):

1103

UNIPROT ID:

P28329

Full Name:

choline acetyltransferase

Calculated MW:

748 aa, 83 kDa

Observed MW:

67-71 kDa

Purification Method:

Protein A purification

CloneNo.:

1F7A9

Recommended Dilutions:

WB 1:1000-1:4000

IHC 1:500-1:2000

## Applications

Tested Applications:

WB, IHC, ELISA

Species Specificity:

human, mouse, rat

**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** : Jurkat cells, PC-12 cells, HEK-293 cells, SH-SY5Y cells, Y79 cells, U-251 cells, Neuro-2a cells

**IHC** : mouse small intestine tissue, rat small intestine tissue

## Background Information

CHAT (choline acetyltransferase) belongs to the carnitine/choline acetyltransferase family. It catalyzes the reversible synthesis of acetylcholine (ACh) from acetyl CoA and choline at cholinergic synapses. Defects in CHAT are the cause of congenital myasthenic syndrome with episodic apnea (CMSEA). CHAT is known to be present exclusively in the cytoplasm of cholinergic neurons and anti-CHAT antibody has been considered as the best marker for cholinergic neurons.

## 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:

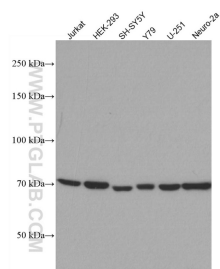
T: 4006900926

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

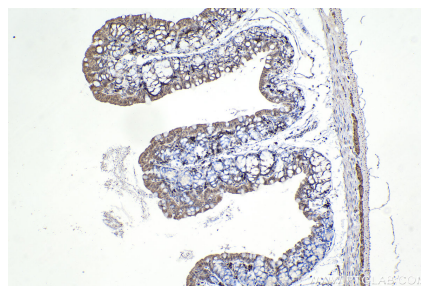
W: [ptgcn.com](http://ptgcn.com)

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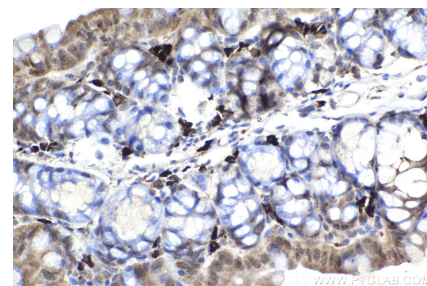
## Selected Validation Data



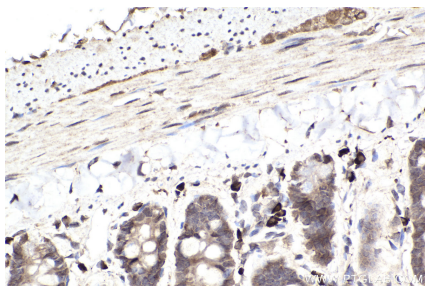
Various lysates were subjected to SDS PAGE followed by western blot with 66816-1-Ig (CHAT antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded mouse small intestine tissue slide using 66816-1-Ig (CHAT 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 mouse small intestine tissue slide using 66816-1-Ig (CHAT antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat small intestine tissue slide using 66816-1-Ig (CHAT antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).