

# CHAT Rabbit mAb

Catalog No.: A25311 **Recombinant**

## Basic Information

**Observed MW**

65kDa/

**Calculated MW**

83kDa

**Category**

Primary antibody

**Applications**

ELISA, WB, IF/ICC, IP

**Cross-Reactivity**

Human, Mouse, Rat

**CloneNo number**

ARC3246

## Background

This gene encodes an enzyme which catalyzes the biosynthesis of the neurotransmitter acetylcholine. This gene product is a characteristic feature of cholinergic neurons, and changes in these neurons may explain some of the symptoms of Alzheimer's disease. Polymorphisms in this gene have been associated with Alzheimer's disease and mild cognitive impairment. Mutations in this gene are associated with congenital myasthenic syndrome associated with episodic apnea. Multiple transcript variants encoding different isoforms have been found for this gene, and some of these variants have been shown to encode more than one isoform.

## Recommended Dilutions

**WB** 1:500 - 1:1000**IF/ICC** 1:50 - 1:200**IP** 0.5µg-6µg antibody for  
300µg-1000µg extracts  
of whole cells

## Immunogen Information

**Gene ID**

1103

**Swiss Prot**

P28329

**Immunogen**

Synthetic peptide

**Synonyms**

CMS6; CMS1A; CMS1A2; CHOACTASE; CHAT

## Contact

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## Product Information

**Source**

Rabbit

**Isotype**

IgG

**Purification**

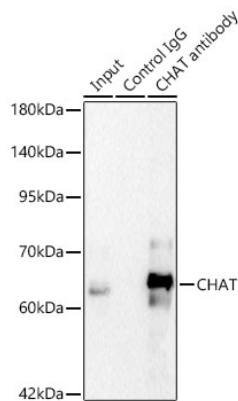
Affinity purification

**Storage**

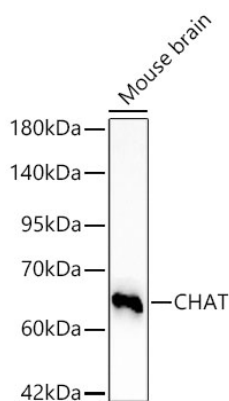
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.05% proclin300, 0.05% BSA, 50% glycerol, pH7.3.

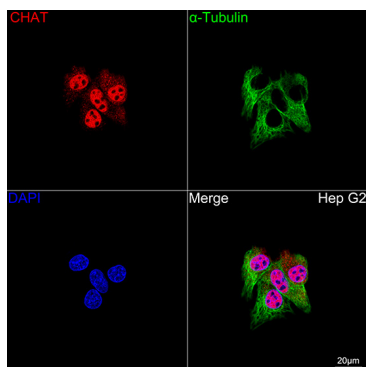
Validation Data



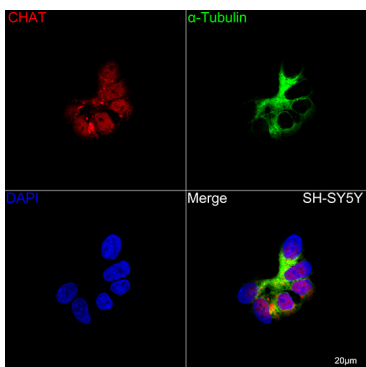
Immunoprecipitation of CHAT in 500 µg extracts from SH-SY5Y cells using 6 µg CHAT Rabbit mAb (A25311). Western blot analysis was performed using CHAT Rabbit mAb (A25311) at 1:2000 dilution.



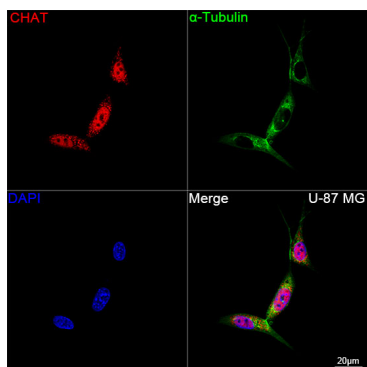
Western blot analysis of lysates from Mouse brain using CHAT Rabbit mAb(A25311) at 1:2000 dilution. Secondary antibody:HRP Goat Anti-Rabbit IgG (H+L)(AS014) at 1:10000 dilution. Lysates/proteins: 25 µg per lane. Blocking buffer: 3% nonfat dry milk in TBST. Detection:ECL Basic Kit (RM00020). Exposure time:90s.



Confocal immunofluorescence analysis of Hep G2 cells using CHAT Rabbit mAb (A25311, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with Alpha-tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal immunofluorescence analysis of SH-SY5Y cells using CHAT Rabbit mAb (A25311, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with Alpha-tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.



Confocal immunofluorescence analysis of U-87 MG cells using CHAT Rabbit mAb (A25311, dilution 1:50) followed by a further incubation with Cy3 Goat Anti-Rabbit IgG (H+L) (AS007, dilution 1:500) (Red). The cells were counterstained with Alpha-tubulin Mouse mAb (AC012, dilution 1:400) followed by incubation with ABflo® 488-conjugated Goat Anti-Mouse IgG (H+L) Ab (AS076, dilution 1:500) (Green). DAPI was used for nuclear staining (Blue). Objective: 100x.