

Anti-CHAT Polyclonal Antibody

Product Details

Ig Type: IgG
Reactivity: Human
Molecular Weight: Theoretical: 82 kDa. Actual: 72 kDa.
Purification: Protein A purified

Applications

1. Blank control: SH-SY5Y.
Primary Antibody (green line): Rabbit Anti-ChAT antibody (TMAB-00423)
Dilution: 1 $\mu\text{g}/10^6$ cells;
Isotype Control Antibody (orange line): Rabbit IgG.
Secondary Antibody: Goat anti-rabbit IgG-AF647
Dilution: 1 $\mu\text{g}/\text{test}$.

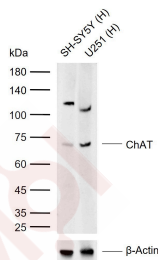
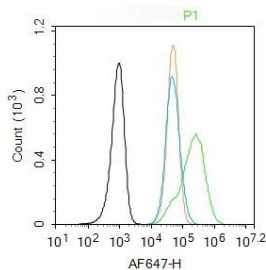
Protocol

The cells were fixed with 4% PFA (10 min at room temperature) and then permeabilized with 90% ice-cold methanol for 20 min at -20°C . The cells were then incubated in 5% BSA to block non-specific protein-protein interactions for 30 min at room temperature. Cells stained with Primary Antibody for 30 min at room temperature. The secondary antibody used for 40 min at room temperature.

Verified Activity:

2. Sample:

Lane 1: Human SH-SY5Y cell lysates
Lane 2: Human U251 cell lysates
Primary: Anti-ChAT (TMAB-00423) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 82 kDa
Observed band size: 72 kDa



Application: FCM,WB
Recommended: WB: 1:500-2000; FCM: 1 $\mu\text{g}/\text{Test}$

A DRUG SCREENING EXPERT

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: KLH conjugated synthetic peptide: human ChAT

Antigen Species: Human

Gene ID: 1103

Uniprot ID: P28329

Biology Area: Soma marker, Acetylcholine

Research 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. [provided by RefSeq, May 2010].

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