

Recombinant Choline Acetyltransferase (CHAT) (Marker of Cholinergic Cells) Antibody

Mouse Monoclonal Antibody [Clone r38B12]

Catalog No	Format	Size
1103-MSM6-P0	Purified Ab with BSA and Azide at 200ug/ml	20 ug
1103-MSM6-P1	Purified Ab with BSA and Azide at 200ug/ml	100 ug
1103-MSM6-P1ABX	Purified Ab WITHOUT BSA and Azide at 1.0mg/ml	100 ug

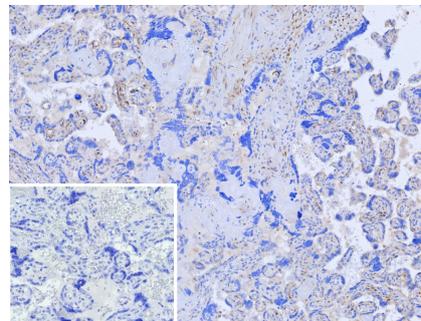
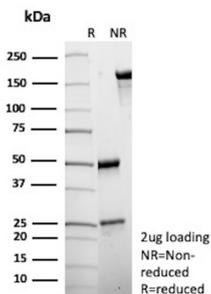
Applications	Tested Dillution	Note
Immunohistochemistry (IHC)	1-2ug/ml	30 min at RT. Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95°C followed by cooling at RT for 20 minutes

Product Details

Clone	r38B12
Gene Name	CHAT
Immunogen	Prokaryotic recombinant protein corresponding to the C-terminal region of the human ChAT molecule.
Host	Mouse
Clonality	Monoclonal
Isotype / Light Chain	IgG1 / Kappa
Mol. Weight of Antigen	82kDa
Cellular Localization	Cytoplasm, Nucleus, Synapse
Species Reactivity	Human
Positive Control	Human appendix, colon, stomach or brain.

*Optimal dilution for a specific application should be determined.

Product Images for Recombinant Choline Acetyltransferase (CHAT) (Marker of Cholinergic Cells) Antibody



SDS-PAGE Analysis of Purified Choline O-acetyltransferase Recombinant Mouse Monoclonal Antibody (r38B12). Confirmation of Purity and Integrity of Antibody.

Formalin-fixed, paraffin-embedded human placenta stained with Choline O-acetyltransferase Recombinant Mouse Monoclonal Antibody (r38B12). Inset: PBS instead of primary antibody; secondary only negative control.

Specificity & Comments

Choline acetyltransferase (ChAT) is a 68 kD enzyme which catalyses the synthesis of acetylcholine (ACh) from choline and acetyl coenzyme A. The human ChAT gene encodes two proteins, the 68 kD ChAT enzyme and a 27 kD protein immunologically related and coexpressed with ChAT in cholinergic neurons of the central nervous system. The smaller proteins may play a role in the regulation of ACh synthesis. ChAT is expressed in cholinergic neurons, the majority of the neurons in the nucleus basalis of Meynert, large neurones in the striatum (putamen and caudate nuclei), the majority of neurones in the pedunculo-pontine, hypoglossal, dorsal nucleus of vagus and subgroups of neurones in Roller's and the medial olivary accessory nuclei. Prominent staining is observed in ribonucleoprotein, distributed at the periphery of large neurons of the nucleus basalis of Meynert, the motor neurons in the hypoglossal and ambiguus nuclei. NCL-ChAT does not label axons in the insular cortex of the internal capsule non-cholinergic structures, endothelial cells or microglia.

Limitations and Warranty

This antibody is available for research use only and is not approved for use in diagnosis. There are no warranties, expressed or implied, which extend beyond this description. Company is not liable for any personal injury or economic loss resulting from this product.

Supplied As

200ug/ml of Ab produced in CHO cell mammalian-based expression system. Prepared in 10mM PBS with 0.05% BSA & 0.05% azide. Also available WITHOUT BSA & azide at 1.0mg/ml.

Storage and Stability

Antibody with azide - store at 2 to 8°C. Antibody without azide - store at -20 to -80°C. Antibody is stable for 24 months. Non-hazardous. No MSDS required.

Research Areas

Metabolism, Neuroscience
