Synaptic Systems

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ChAT

Cat.No. 297 111; Monoclonal mouse antibody, 100 µg purified IgG (lyophilized)

Data Sheet

Reconstitution/ Storage	100 µg purified IgG, lyophilized. Azide was added before lyophilization. For reconstitution add 100 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	**WB**: not tested yet **IP**: not tested yet **ICC**: not tested yet **IHC**: 1 : 500 **IHC-P/FFPE**: 1 : 100 up to 1 : 1000
Clone	110G10
Subtype	IgG1
Immunogen	Recombinant protein corresponding to AA 1 to 640 from rat ChAT (UniProt Id: P32738)
Epitop	Epitop: AA 1 to 640 from rat ChAT (UniProt Id: P32738)
Reactivity	Reacts with: mouse (Q03059), rat (P32738). Other species not tested yet.
Specificity	specific for ChAT

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Cholinergic neurons are involved in numerous neurological functions. Acetylcholine (ACh) is a common neurotransmitter for motoneurons, preganglionic autonomic neurons,postganglionic parasympathetic neurons, a variety of brain regions and some emerging neuron-like stem cells. Two enzymes; **ch**oline **a**cetyl**t**ransferase (**ChAT**) and **a**cetyl**ch**olin**e**sterase (AChE) are involved in the metabolism of ACh.

Selected General References

Two mRNAs are transcribed from the human gene for choline acetyltransferase.
Lorenzi MV, Trinidad AC, Zhang R, Strauss WL
DNA and cell biology (1992) 11(8): 593-603.

Estradiol increases choline acetyltransferase activity in specific basal forebrain nuclei and projection areas of female rats.
Luine VN
Experimental neurology (1985) 89(2): 484-90.