Synaptic Systems

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Acetylcholinesterase (AChE)

Cat.No. 425 006; Polyclonal chicken antibody, 200 µl specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	200 µl purified IgY, lyophilized. Ovalbumin was added for stabilization. For reconstitution add 200 µl H_2O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use. **Before storing at -20°C add 1 vol of glycerol.**
Applications	**WB**: not tested yet **IP**: not tested yet **ICC**: not tested yet **IHC**: 1 : 500 (see remarks) **IHC-P/FFPE**: 1 : 100 up to 1 : 250 (see remarks)
Immunogen	Recombinant protein corresponding to AA 489 to 614 from rat AChE (UniProt Id: P37136)
Reactivity	Reacts with: rat (P37136), mouse (P21836). Other species not tested yet.
Specificity	Detects isoform T, may cross react to isoforms R and H.
Remarks	**IHC**: Antigen retrieval (10mM citrate, pH 6.0, overnight at 60°C) is recommended. **IHC-P**: Antigen retrieval (10mM Tris, 1mM EDTA, pH 9.0) is recommended.

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

Acetyl**ch**olin**e**sterase also known as **AChE** or **Acetylhydrolase**, hydrolyzes the neurotransmitter acetylcholine at neuromuscular junctions and cholinergic synapses in the brain and thus terminates signal transmission. The protein is also found on the membranes of erythrocytes.

Acetylcholinesterase is a globular, glycosylated protein that lacks a transmembrane peptide-anchor region and occurs as several isoforms, originating from alternative splicing of the AChE mRNA.

Selected General References

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