

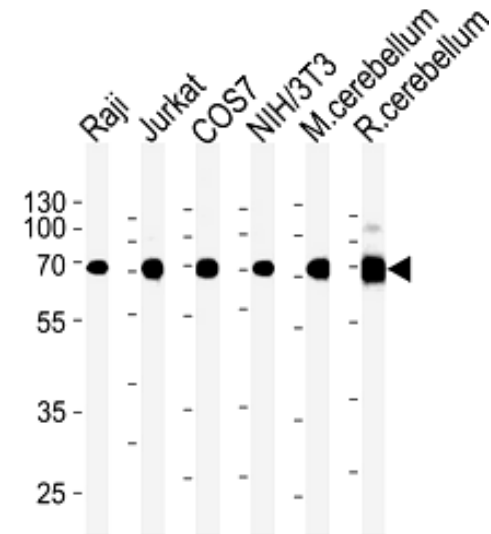
# AChe Antibody (CT) (Clone 684CT8.3.4)

<b>ALTERNATE NAMES:</b>	ACHE; Acetylcholinesterase
<b>CATALOG #:</b>	6707-100
<b>AMOUNT:</b>	100 µl
<b>HOST/ISOTYPE:</b>	Mouse IgG1
<b>IMMUNOGEN:</b>	This AChE antibody is generated from mouse immunized with a KLH conjugated synthetic peptide between 587-611 amino acids from the C-terminal region of human AChE.
<b>PURIFICATION:</b>	This antibody is purified through a protein G column, eluted with high and low pH buffers and neutralized immediately, followed by dialysis against PBS.
<b>MOLECULAR WEIGHT:</b>	~67.8 kDa
<b>FORM:</b>	Liquid
<b>FORMULATION:</b>	Supplied in PBS with 0.09% (W/V) sodium azide.
<b>SPECIES REACTIVITY:</b>	Human, Mouse, Rat. Also predicted with Bovine and rabbit.
<b>STORAGE CONDITIONS:</b>	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

**DESCRIPTION:** Acetylcholinesterase (AChE) hydrolyzes acetylcholine at synaptic junctions. Alternative mRNA splicing gives rise to three forms of AChE. It plays a role in neuronal apoptosis. The T form, also known as the asymmetric form, is soluble and is present in synapses. The H form is also known as the globular form and is present on the outer surfaces of cell membranes. The R form is not known to be a functional species. AChE globular form subunits are GPI-anchored to cell membranes and asymmetric subunits are anchored to basal lamina components by a collagen tail. The catalytic subunits of AChE are oligomers composed of disulfide-linked homodimers. The loss of AChE from cholinergic and noncholinergic neurons in the brain is seen in patients with Alzheimer's disease. However, AChE activity is increased around amyloid plaques, which may be due to a disturbance in calcium homeostasis involving the opening of L-type voltage-dependent calcium channels.

**APPLICATION:** Western blot: ~1:2000

**Note:** This information is only intended as a guide. The optimal dilutions must be determined by the user.



AChE Antibody (C-term) (Cat # 6707-100) western blot analysis in Raji, Jurkat, COS7, mouse NIH/3T3 cell line and mouse cerebellum, rat cerebellum tissue lysates (35 µg/lane). This demonstrates the AChE antibody detected the AChE protein (arrow).

#### RELATED PRODUCTS:

- AChE Antibody (NT) (Cat. No. 6706-100)

**FOR RESEARCH USE ONLY! Not to be used on humans.**