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**Anti-Conjugated Acetylcholine
RABBIT POLYCLONAL**

Catalog Number: AB-T02
Quantity: 50 microliters
Format: Lyophilized and reconstituted with deionized water / 50% glycerol
Host: Rabbit
Isotype: IgG
Immunogen: Synthetic choline-glutaric acid conjugated to bovine serum albumin

Specificity and Preparation:

Antiserum previously preabsorbed on protein carriers and purified by ammonium sulfate precipitation. This antibody targets conjugated choline-glutaric acid. **This antibody does not recognize free choline-glutaric acid.** Staining with glutaraldehyde fixative creates conjugated acetylcholine in tissue. Using a conjugate Choline-glutaric acid-BSA antibody specificity was performed with an ELISA test by competition experiments with the following compounds:

COMPOUND	CROSS REACTIVITY §
Choline-GA-BSA	1
Choline-allyl alcohol-G-BSA	1/1.6
Phosphatidylcholine	1/>10,000
Choline	1/>10,000
Acetylcholine	1/>10,000

GA = Glutaric anhydride, BSA = Bovine Serum Albumin

§ Choline-GA-BSA concentration/unconjugated or conjugated analogs concentration at half displacement

Usage and Storage:

Applications include ELISA (1/2,000-1/5,000) and immunohistochemistry / immunocytochemistry (1/500 -1/1,000, paraffin). Store the antibody at 4°C for one month or -20°C in undiluted aliquots for up to one year. Avoid repeated freezing and thawing. Gently spin down material before use; 5-10 seconds in a microfuge should be adequate.

Available Control(s): Choline-GA-BSA

References:

1. Geffard M, Vieillemaringe J, Heinrich-Rock AM, Duris P. (1985) Anti-acetylcholine antibodies and first immunocytochemical application in insect brain. *Neurosci Lett* 57:1-6.
2. Geffard M, McRae-Degueurce A, Souan ML. (1985) Immunocytochemical detection of acetylcholine in the rat central nervous system. *Science* 229:77-79.
3. McRae-Degueurce A and Geffard M. (1986) One perfusion mixture for immunocytochemical detection of noradrenaline, dopamine, serotonin and acetylcholine in the same rat brain. *Brain Res* 376:217-219.
4. Wang-Bennett LT, Souan ML, Glantz RM. (1988) Immunocytochemical studies of the distribution of acetylcholine in the crayfish. *Brain J Comp Neurol* 273:330-343.

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