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Anti-Conjugated Acetylcholine MOUSE MONOCLONAL

Catalog Number: AB-T029
Quantity: 50 microliters
Format: Lyophilized and reconstituted with deionized water / 50% glycerol
Host: Mouse
Isotype: IgG2a, Kappa
Clone: HYChol001
Immunogen: Synthetic choline-glutaric acid conjugated to bovine serum albumin

Specificity and Preparation:

Monoclonal antibody to acetylcholine was obtained after AKRT mouse immunization with the conjugates: Choline-Glutaric acid-carrier proteins and hybridization of spleen cells with myeloma cell line SP2/O/Ag14. Ascites production was performed in irradiated BALB/c mice. The ascitic fluid was purified by ammonium sulfate precipitation.

This antibody targets conjugated choline-glutaric acid. **This antibody does not recognize free choline-glutaric acid.**

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-AA-BSA	1/500
Choline-SA-BSA	1/2,500
Farnesol-BSA	1/>50,000
Retinoic acid-BSA	1/>50,000
Myristic acid-BSA	1/>50,000
Acetylcholine	1/>50,000
Choline	1/>50,000

GA = Glutaric acid, AA = Adipic acid, SA = Succinic acid, BSA = Bovine Serum Albumin

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

Usage and Storage:

Applications include ELISA (1/1,000-1/5,000); immunocytochemistry; immunohistochemistry (1/1,000-1/5,000, frozen); immunoblotting (western blot, 1/1,000-1/2,000). 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. Chagnaud JL, Souan ML, Charrier MC, Geffard M (1989) Monoclonal anti-conjugated acetylcholine antibody and immunohistochemical applications in rat nervous system. *J Neurochem* 53:383-391.

To view protocol(s) for this and other products please visit: www.ATSBio.com/protocols