

**Anti Butyrylcholinesterase (human, BtChE)
Mouse monoclonal antibody**Subclass: IgG₁/k

PRODUCT NO.	HAH 002-01
PRESENTATION	Preparation: Protein-A/G purified Content: Available in 200 µL and 1 mL, 1 mg/mL Solvent: 0.01 M phosphate buffer, pH 7.4, with 0.5 M NaCl and 15 mM sodium azide Storage: In the dark at 4-8°C
ANTIGEN	Butyrylcholinesterase (BtChE, EC 3.1.1.8.) is synthesized in the liver, and is predominantly found in serum, liver and pancreas. Butyrylcholinesterase is a tetrameric glycoprotein (molecular mass of 350 kDa), and consists of four subunits, each with molecular mass of 90 kDa (1).
IMMUNOGEN	Butyrylcholinesterase isolated from human plasma
SPECIFICITY	HAH 002-01 has specificity for butyrylcholinesterase from human serum or plasma. Crossreactivity to BtChE from other species has not been tested.
EPI TOPE SPECIFICITY	Not determined
REACTIVITY	HAH 002-01 reacts with BtChE from normal serum when tested in sandwich ELISA using a polyclonal antibody against BtChE as capture antibody, and in crossed immunoelectrophoresis followed by incubation of the gel with HAH 002-01 (2,3). Serum ChE activity has been measured by enzyme antigen immunoassay (EAIA) in combination with a polyclonal antibody against ChE and HAH 002-01 (4). In immunoblotting after SDS-PAGE no reaction is seen with neither the reduced nor with the nonreduced form of BtChE. No reaction is seen with acetylcholinesterase from human nervous tissue and erythrocytes.
CULTURE MEDIUM	RPMI 1640 with 10% fetal calf serum
FUSION PARTNER	X63-Ag8.653.
IMMUNIZATION	Female CF1 x BALB/c mice immunized i.p. with immunogen adsorbed onto Al(OH) ₃
APPLICATION	

Method	Usability	Dilution guideline	References
ELISA	Yes	1:8000	2
Immunoblotting	No		
Immunohistochemistry	Not determined		

The dilution guideline for ELISA is based on sandwich ELISA in combination with a polyclonal antibody against the antigen. Users should determine the optimal dilutions for their own purpose.

REFERENCES	<ol style="list-style-type: none"> Whittaker M: Cholinesterase. Monographs in human genetics 11 (ed. Beckman L.) Karger 1986. Brock A, Mortensen V, Rasmussen Loft AG, Norgaard-Pedersen B (1990) Enzyme immunoassay of human cholinesterase (EC 3.1.1.8). Comparison of immunoreactive substance concentration with catalytic activity concentration in randomly selected serum samples from healthy individuals. J Clin Chem Clin Biochem 28:221-224. Skjodt K, Schou C, Koch C (1984) Assay for the specificity of monoclonal antibodies in crossed immunoelectrophoresis. J Immunol Methods 72:243-249. Hangaard J, Whittaker M, Loft AGR, Norgaard-Pedersen B (1991) Quantification and phenotyping of serum cholinesterase by enzyme antigen immunoassay: methodological aspects and clinical applicability. Scand J Clin Lab Invest 51:349-358.
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CONDITIONS

All products are supplied on the understanding that they are for in vitro use only. The information and product are offered without guarantee as the ultimate conditions of use are beyond our control. The animals from which this product was derived have not been exposed to or inoculated with any livestock or poultry disease agents exotic to the United States or Western Europe, and did not originate from facilities where work with exotic disease agents affecting livestock or avian species is carried out.