

**Anti-Butyrylcholinesterase (human, BtChE)
 Mouse monoclonal antibody**

Subclass: IgG1/k

PRODUCT NO.

HAH 002-01

Clone: 3E8

PRESENTATION

Preparation: Protein-A/G purified

Content: Available in 200 µL and 1 mL size. 1 mg/mL +/- 15%. See Certificate of Analysis for details.

Solvent: 0.01 M phosphate buffer, pH 7.4, containing 0.5 M NaCl and 15 mM sodium azide

Storage: 4-8°C without exposure to light. No precautions necessary during handling.

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 and adsorbed onto aluminum hydroxide gel

SPECIFICITY

HAH 002-01 is specific for butyrylcholinesterase from human serum or plasma.

Cross-reactivity 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 Western blotting after SDS-PAGE no reaction is seen with either 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 by intraperitoneal injection

APPLICATION

Method	Usability	References
ELISA	Yes	2
Immunoblotting	No	
Immunohistochemistry	Not determined	

REFERENCES

- Whittaker M (1986) Cholinesterase. Monographs in human genetics 11 (ed. Beckman L.)
- 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.

CONDITIONS

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