

PRODUCT SPECIFICATION

26/05/2014

Anti-Butyrylcholinesterase (human, BChE)

PRODUCT NO.	Mouse monoclonal antibody, biotinylated HAH 002-01 B	Subclass: IgG1/k
		Clone: 3E8
SPECIFICITY	HAH 002-01 is specific for butyrylcholinesterase from human serum or plasma.	
IMMUNOGEN	Butyrylcholinesterase isolated from human plasma	
TESTED APPLICATIONS	ELISA	
SPECIES REACTIVITY (POSITIVE)	Human	
SPECIES REACTIVITY (NEGATIVE)	Not determined	
EPITOPE SPECIFICITY	Not determined	
PRESENTATION Content:	50 μL, 1 mg/mL +/- 15%. See Certificate of Analysis for details.	
Preparation:	Biotinylated	
Form:	Liquid	
Solvent: Storage:	0.01 M phosphate buffer, pH 7.4, with 0.14 M NaCl and 15 mM sodium azide 4-8°C without exposure to light. No precautions necessary during handling.	
APPLICATION	ELISA: HAH 002-01 reacts with BChE in normal human serum in sandwich ELISA both capture and detection antibody (1). Serum cholinesterase activity can be mea antigen immunoassay (EAIA) in combination with HAH 002-01 as capture antibody also applicable in sophisticated immunomagnetic quantification assays for the dete adducts (4, 5).	sured by enzyme ((2, 3). HAH 002-01 is
TARGET	Butyrylcholinesterase (BChE, EC 3.1.1.8.) is synthetizised in the liver, and is prede liver and pancreas. Butyrylcholinesterase is a tetrameric glycoprotein (molecular consists of four subunits, each with molecular mass of 90 kDa.	
REFERENCES	 Aoki Y, Helzlsouer K, Strickland P (2014) Arylesterase Phenotype-Specific Posifi Between Arylesterase Activity and Cholinesterase Specific Activity in Human Serur Public Health 11:1422-1443. Pan Y, Gao D, Yang W, Cho H, Yang G, Tai HH, Zhan CG (2005) Computationa butyrylcholinesterase for anticocaine medication. Proc Natl Acad Sci 102:16656-61 Yang W, Pan Y, Zheng F, Cho H, Tai HH, Zhan CG (2009) Free-Energy Perturb Transition States and Redesign of Butyrylcholinesterase. Biophysical Journal 96:19 Sporty J, Lemire S, Jakubowski E, Renner J, Evans R, Williams R, Schmidt J, va Noort D, Johnson R (2010) Immunomagnetic Separation and Quantification of Buty Nerve Agent Adducts in Human Serum. Anal Chem 82, 6593-6600. Knaack J, Zhou Y, Abney C, Prezioso S, Magnuson M, Evans R, Jakubowski E, (2012) High-Throughput Immunomagnetic Scavenging Technique for Quantitative Nerve Agent in Water, Hamburger, and Soil Matrixes. Anal Chem 84:10052?10057 	m. Int. J. Environ. Res. al redesign of human I. ation Simulation on 931-1938. an der Schans M, yrylcholinesterase Hardy K, Johnson R Analysis of Live VX

CONDITIONS

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