

BCHE Antibody (Center)

ALTERNATE NAMES:	BCHE; CHE1; Cholinesterase; Acylcholine acylhydrolase; Butyrylcholine esterase; Choline esterase II; Pseudocholinesterase
CATALOG #:	6724-100
AMOUNT:	100 µl
HOST/ISOTYPE:	Rabbit IgG
IMMUNOGEN:	This BCHE antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 385-415 amino acids from the Central region of human BCHE.
PURIFICATION:	This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.
MOLECULAR WEIGHT:	~68.4 kDa
FORM:	Liquid
FORMULATION:	Supplied in PBS with 0.09% (W/V) sodium azide.
SPECIES REACTIVITY:	Human.
STORAGE CONDITIONS:	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

DESCRIPTION: Present in most cells except erythrocytes, butyrylcholine esterase (BChE), also designated acylcholine acylhydrolase or pseudocholinesterase, has esterase activity as well as aryl acylamidase activity. It hydrolyzes acylcholine into choline and carboxylate. BChE is synthesized in the liver and is highly reactive with organophosphate esters. BChE can form a homotetramer composed of two dimers linked by a disulfide bond. Defects in the gene encoding BChE are associated with the disease hypocholinesterasemia. Inhibition of BChE effects the toxicity of organophosphates in the respiratory system suggesting that BChE may play a role in respiratory function. In addition, BChE may play an important pharmacological role by hydrolyzing toxic esters. This suggests an involvement of BChE in a treatment for intoxication with substances such as cocaine.

APPLICATION: Western blot: ~1:1000.

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.

FOR RESEARCH USE ONLY! Not to be used on humans.



Western blot analysis of anti-BCHE Antibody (Center)(Cat # 6724-100) in A2058 cell line lysates (35 µg/lane). BCHE (arrow) was detected using the purified pAb.

RELATED PRODUCTS:

- ACHE Antibody (CT) (Clone 684CT8.3.4) (**Cat. No. 6707-100**)
- ACHE Antibody (NT) (**Cat. No. 6706-100**)
- Choline/Acetylcholine Quantification Colorimetric/Fluorometric Kit (**Cat. No. K615-100**)
- Acetylcholinesterase Activity Colorimetric Assay Kit (**Cat. No. K764-100**)
- Cryptotanshinone (**Cat. No. 2429-5, -25**)