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Diagnostik & molekulare Diagnostik



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-Butyrylcholinesterase [11D8] Standard Size Ab00765-10.3

This antibody was created using our proprietary Fc Silent™ engineered Fc domain containing key point mutations that abrogate binding to Fc gamma receptors.

This chimeric human antibody was made using the variable domain sequences of the original Mouse IgG1 format, for improved compatibility with existing reagents, assays and techniques.

Isotype and Format: Human IgG1, Fc Silent™, Kappa

Clone Number: 11D8

Alternative Name(s) of Target: BChE

UniProt Accession Number of Target Protein: P06276

Published Application(s): IP, WB, ELISA, IHC

Published Species Reactivity: Human

Immunogen: 11D8 was prepared by immunizing BChE -/- mice with sugar-diminished full-length recombinant human BChE (Hrabovska et al. 2010).

Specificity: 11D8 binds to both native and denatured human butyrylcholinesterase (HuBChE) with KD ~0.26 nM (determined by ELISA - 0.9 nM by SPR). Binding of 11D8 excludes binding of mAb B2 18-5, suggesting that they bind to the same/similar epitope on huBChE. The antibody also binds to human albumin, which can compete with huBChE for binding. huBChE in plasma is a serine esterase that catalyzes the hydrolysis of esters including aspirin, cocaine, heroin, and octanoyl ghrelin.

Application Notes: The percent active HuBChE bound to 11D8 in ELISAs is highest when the volume of plasma was lowest. 11D8 also binds to human albumin and so 11D8 is less suitable for immunopurification of huBChE from plasma compared to e.g. B2 18-5.

Antibody First Published in: Peng et al. Comparison of 5 monoclonal antibodies for immunopurification of human butyrylcholinesterase on Dynabeads: KD values, binding pairs, and amino acid sequences. Chem Biol Interact. 2015 Oct 5;240:336-45 [PMID:26343001](#)

Note on publication: Describes the characterization and comparison of 5 monoclonal antibodies for their ability to purify huBChE on Dynabeads.

Product Form

Size: 200 µg Purified antibody.

Purification: Protein A affinity purified

Supplied In: PBS with 0.02% Proclin 300.

Storage Recommendation: Store at 4°C for up to 3 months. For longer storage, aliquot and store at -20°C.

Concentration: 1 mg/ml.

Important note - This product is for research use only. It is not intended for use in therapeutic or diagnostic procedures for humans or animals.