

Anti-cotinine Human Monoclonal Antibody, Fc-engineered with Reduced ADCC

SKU: EAB-022

Recombinant human monoclonal antibody (Clone ID: C1), expressed in Chinese Hamster Ovary cells (CHO), is capable of strong binding to cotinine. Cotinine is an alkaloid found in tobacco and is also a metabolite of nicotine. Cotinine is used as a biomarker for exposure to tobacco smoke. Cotinine was developed as an antidepressant as cotinine fumarate, sold under the brand name Scotine.

species reactivity	independent
recombinant	expressed in Chinese Hamster Ovary cells (CHO).
applications	WB, Flow Cyt, IHC, ELISA, functional study
antibody form	affinity purified immunoglobulin
immunogen	hapten cotinine
clone	C1
purity	>95% (SDS-PAGE)
form	0.015 M PBS, 0.05% NaN ₃ , pH7.2
concentration	~ 2 mg/ml
isotype	Human Ig1, k
Fc-engineered	Reduced ADCC

- Store at -20°C. Recombinant monoclonal antibodies are guaranteed stable for 12 months when properly stored.

References:

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3. Oyama, H., Morita, I., Kiguchi, Y. et al. (2017). One-shot in vitro evolution generated an antibody fragment for testing urinary cotinine with more than 40-fold enhanced affinity. *Anal. Chem.* 89, 988-995.
4. Walker et al. (1989). Aglycosylation of human IgG1 and IgG3 monoclonal antibodies can eliminate recognition by human cells expressing Fc gamma RI and/or Fc gamma RII receptors. *Biochem. J.* 259, 347-353.
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