



Anti-cotinine Mouse Monoclonal Antibody, Fc-engineered with Reduced ADCC and CDC

SKU: EAB-023

Recombinant mouse 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	mouse Ig2a, k
Fc-engineered	Reduced ADCC and CDC

- 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.
5. Sazinsky et al. (2008). Aglycosylated immunoglobulin G1 variants productively engage activating Fc receptors. *Proc. Natl. Acad. Sci. USA*, 105, 20167-20172.
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