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Mouse Cocaine And Amphetamine Regulated Transcript (CART) ELISA Kit-Sandwich

Cat. No.: EK5F818

Product Type: Animal Immunoassay Kits

Size: 48T;96T

Product Overview

BioVenic Mouse Cocaine And Amphetamine Regulated Transcript (CART) ELISA Kit-Sandwich is designed for the quantitative determination of Mouse CART in serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids using a Sandwich ELISA method. For research use only.

Specifications

Assay Type	ELISA-Sandwich
Specificity	The assay kit is specific for Mouse Cocaine And Amphetamine Regulated Transcript (CART).
Target Species	Mouse
Species Reactivity	Mouse
Detection Range	0.17-10 ng/mL
Reproducibility	Intra-Assay: CV < 10%; Inter-Assay: CV < 12%
Assay Time	Around 90 min
Sample Requirement	Serum, plasma, tissue homogenate, cell culture supernatant, cell lysate, and other biological fluids.

Target Information

The cocaine- and amphetamine-regulated transcript protein acts as a satiety factor, intricately linked with leptin and neuropeptide Y actions. This anorectic peptide inhibits both normal and starvation-induced feeding and completely blocks the feeding response induced by neuropeptide Y, with regulation occurring in the hypothalamus. In mice, the expression of the Cartpt gene is influenced by multiple factors. For instance, in the midbrain dopamine region, its expression correlates with behavior following acute cocaine self-administration, indicating a role in addictive behavior. Additionally, in the mouse hypothalamus, the Cartpt gene is linked to dietary regulation, and its expression may influence neurohormone secretion, thereby indirectly impacting appetite and energy metabolism.

Target/Biomarker	Mouse CART
Target Synonym	CARTPT
Gene ID	27220

UniProt ID	P56388

Shipping and Storage

This product is shipped with gel ice packs. It is recommended to store at 2-8 °C (Up to 6 months).

Reference

Bubier, Jason A *et al.* "Discovery of a Role for Rab3b in Habituation and Cocaine Induced Locomotor Activation in Mice Using Heter ogeneous Functional Genomic Analysis." *Frontiers in neuroscience* vol. 14 721. 9 Jul. 2020.