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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Anti-CART [AH36] Standard Size Ab03748-10.3

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

This is a reformatted human IgG1 Fc Silent Fc Silent™ antibody, based on the original human scFv format, created for improved compatibility with existing reagents, assays and techniques.

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

Clone Number: AH36

Alternative Name(s) of Target: CARTPT; Cocaine-amphetamine regulated transcript peptide; neurotransmitter

UniProt Accession Number of Target Protein:

Published Application(s): in vivo, ELISA

Published Species Reactivity: Species independent

Immunogen:

Specificity: This antibody specifically binds cocaine-amphetamine regulated transcript peptide also known as CART, which is a widely distributed neurotransmitter expressed in the central nervous systems. Studies have shown the role of CART in food intake, maintenance of bodyweight, stress control, reward and pain transmission. Repeated administration of psychostimulants enhances expression of CART peptide. Nucleus accumbal-injected CART peptide plays a positive role in the regulation of behavioral sensitization induced by psychostimulants and regulated the mesocorticolimbic dopaminergic pathway. CART peptide also exerted an inhibitory effect on psychostimulant-enhanced dopamine receptors signaling, Ca²⁺/calmodulin-dependent kinase signaling and crucial transcription factors expression.

Application Notes: The binding reactivity of this antibody to CART was checked using ELISA. The in-vivo administration of this antibody in mice had no effects on the normal spontaneous activities of the animal. However, when mice were given this antibody intraperitoneally before administration of cocaine, it inhibited the expression of cocaine-induced animal behavioral sensitization (CN101280016). This antibody is recommended for studies relating to treatment of drug addiction.

Antibody First Published in: [PMID:](#)

Note on publication:

Product Form

Size: 100 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.