
Methamphetamine(4D2) Mouse mAb

Catalog Number: bsm-2068M

Target Protein: Methamphetamine(4D2)

Concentration: 1mg/ml

Form: Size : 50ul/100ul/200ul

Liquid

Size : 200ug (PBS only)

Lyophilized

Note: Centrifuge tubes before opening. Reconstitute the lyophilized product in distilled water. Optimal concentration should be determined by the end user.

Host: Mouse

Clonality: Monoclonal

Clone No.: 4D2

Isotype: IgG

Applications: ELISA (1:5000-10000)

Reactivity: (predicted:Methamphetamine)

Predicted MW: 0.14924 kDa

Purification: affinity purified by Protein G

Storage: Size : 50ul/100ul/200ul

0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.

Size : 200ug (PBS only)

0.01M PBS

Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.

Background: Methamphetamine (METH) is closely related chemically to amphetamine (AMPH). METH is a potent central nervous system stimulant with additional peripheral sympathomimetic effects. METH and AMPH have been used clinically in the treatment of obesity, minimal brain dysfunction, narcolepsy, depression and to counter fatigue. They are also subjected to widespread abuse. METH is an indirect agonists. It causes the release of newly synthesized norepinephrine and dopamine and it blocks the re uptake of these transmitters from the synapse. This can lead to an increase in the concentration of catecholamines in the synapse as well as an overall increase in catecholaminergic activity in the brain. The mechanism of METH induced neurotoxicity for all monoaminergic cell types may lie primarily with the dopaminergic system in the striatum. It may also lie with the interaction between METH induced release of dopamine and its ability to inhibit monoamine oxidase.