abcam

Product datasheet

Monoamine oxidase B Activity Assay Kit ((MAOB Assay) ab109912

1 References 3 Images

Overview

Product name Monoamine oxidase B Activity Assay Kit ((MAOB Assay)

Detection method Colorimetric

Sample type Cell culture extracts

Assay type Enzyme activity

Species reactivity Reacts with: Human

Product overview ab109912 (MS747) is a novel assay that uses a high affinity monoclonal capture antibody to

selectively isolate MAOB from all other peroxidases and oxidases (including MAOA) in a tissue or cultured cell sample. After isolation and subsequent measurement of the enzyme's functional activity, the quantity of isolated MAOB is measured in the same well by adding a second monoclonal detector antibody, which is quantified using a colorimetric label (HRP). Both reactions

take place in time-dependent manners proportional to the amount of enzyme captured in each well. By combining activity and quantity measurements, the enzyme's relative specific activity can be determined. Specific activity is useful for measuring up or down regulation of activity by site-

specific modification or damage, and in response to specific inhibitors.

Notes Store Fluorophore and benzylamine at -80°C. Store all other components store at 4°C.

Platform Microplate reader

Properties

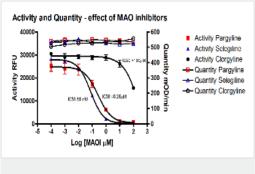
Storage instructions Please refer to protocols.

Components	1 x 96 tests
100X Benzylamine Substrate	1 x 0.25ml
100X Detector Antibody	1 x 0.125ml
100X HRP Label	1 x 0.125ml
10X Blocking Solution	1 x 10ml

1

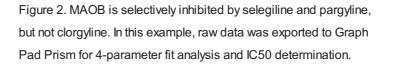
Components	1 x 96 tests
12-channel reagent reservoirs	1 unit
20X Wash Buffer	1 x 25ml
500X Fluorophore	1 x 50µl
500X Peroxidase	1 x 50µl
96-well Microplate (12 strips)	1 unit
Extraction Buffer (ab260490)	1 x 15ml
HRP Development Solution	1 x 12ml

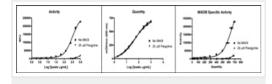
Images



- Monoamine oxidase B (MAOB) Specific Activity

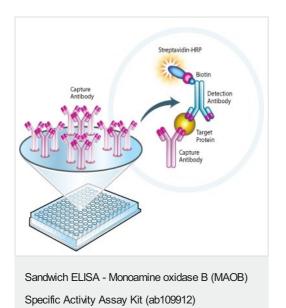
Assay Kit (ab109912)





- Monoamine oxidase B (MAOB) Specific Activity Assay Kit (ab109912)

Figure 1. With a HepG2 cell lysate MAOB activity was clearly measurable in the 16-1000 $\mu\text{g}/\,\text{mL}$ range and quantity in the range 1-1000 $\mu g/mL$. The MAOB specific inhibitor pargyline inhibited activity 90% while not affecting quantity.



Abcam's protein quantity microplate assays use the well-established sandwich ELISA format, whereby capture and detector antibodies are used to immobilize and then quantify a target protein or enzyme. All of our microplate assays utilize our highly-validated immunocapture antibodies, which are able to capture large, multisubunit enzyme complexes in their fully intact state. Capture antibodies are pre-coated in the wells of premium Nunc MaxiSorp™ modular microplates, which can be broken into 8-well strips. After the target has been immobilized in the well, a second monoclonal antibody, against a different epitope on the target, is added to the well. This detector antibody is either directly labeled with biotin, or a biotin-labeled goat anti-mouse secondary is added. Substrate plus HRP or AP conjugated to streptavidin provide a colorimetric signal that is readable by any plate readers capable of standard ELISA absorbance measurements.

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