

## Product datasheet

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

画像数 3

### 製品の概要

|            |   |
|------------|---|
| 製品名        | Monoamine oxidase B (MAOB) Specific Activity Assay Kit  |
| 検出方法       | Colorimetric  |
| サンプルの種類    | Cell culture extracts   |
| アッセイタイプ    | Enzyme activity   |
| ステップ       | Multiple steps standard assay   |
| 種交差性       | 交差種: Human  |
| 製品の概要      | <p>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.</p> |
| 特記事項       | Store Fluorophore and benzylamine at -80°C. Store all other components store at 4°C.  |
| アプリケーション   | 適用あり: Sandwich ELISA  |
| 試験プラットフォーム | Microplate  |

### 製品の特性

保存方法 Please refer to protocols.

| 内容                         | 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  |

| 内容                             | 1 x 96 tests |
|--------------------------------|--------------|
| 10X Blocking Solution          | 1 x 10ml     |
| 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              | 1 x 15ml     |
| HRP Development Solution       | 1 x 12ml     |

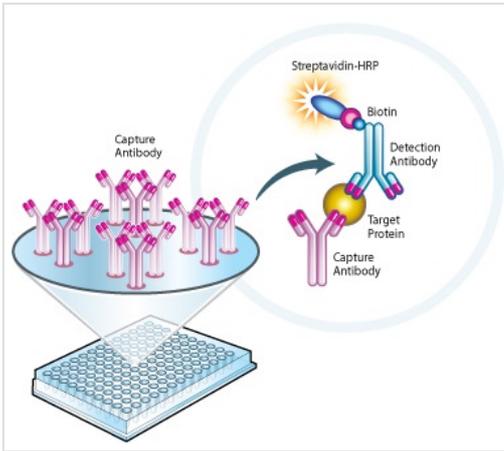
## アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab109912** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

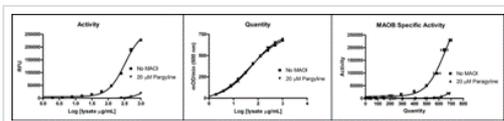
| アプリケーション       | Abreviews | 特記事項                                |
|----------------|-----------|-------------------------------------|
| Sandwich ELISA |           | Use at an assay dependent dilution. |

## 画像



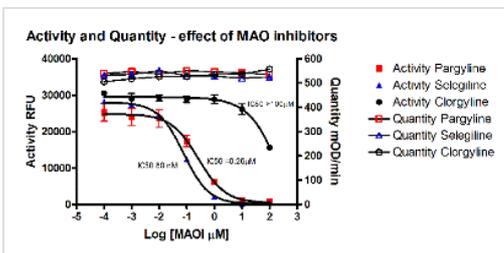
Sandwich ELISA - Monoamine oxidase B (MAOB) Specific Activity Assay Kit (ab109912)

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, multi-subunit 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.



- 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 µg/ mL range and quantity in the range 1-1000 µg/mL. The MAOB specific inhibitor pargyline inhibited activity 90% while not affecting quantity.



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

Figure 2. MAOB is selectively inhibited by selegiline and pargyline, but not clorgyline. In this example, raw data was exported to Graph Pad Prism for 4-parameter fit analysis and IC50 determination.

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

## **Our Abpromise to you: Quality guaranteed and expert technical support**

---

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
  
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.co.jp/abpromise> or contact our technical team.

## **Terms and conditions**

---

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors