## Overview

<table>
<thead>
<tr>
<th><strong>Product name</strong></th>
<th>Anti-IRS1 antibody [EP260Y]</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Description</strong></td>
<td>Rabbit monoclonal [EP260Y] to IRS1</td>
</tr>
<tr>
<td><strong>Host species</strong></td>
<td>Rabbit</td>
</tr>
</tbody>
</table>
| **Tested applications** | Suitable for: WB  
Unsuitable for: Flow Cyt, ICC/IF, IHC-P or IP |
| **Species reactivity** | Reacts with: Human |
| **Immunogen** | A synthetic peptide corresponding to residues near the C-terminus of human IRS1. Phosphorylated at tyrosine 896. |
| **Positive control** | 293 cell lysate. |
| **General notes** | This antibody was re-validated and was confirmed to recognize total IRS1. The name was changed from Anti-IRS1 (phospho Y896) antibody [EP260Y] to Anti-IRS1 antibody [EP260Y] on May 1st, 2018.  
Our RabMab® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMab® patents  
We are constantly working hard to ensure we provide our customers with best in class antibodies. As a result of this work we are pleased to now offer this antibody in purified format. We are in the process of updating our datasheets. The purified format is designated 'PUR' on our product labels. If you have any questions regarding this update, please contact our Scientific Support team.  
This product is a recombinant rabbit monoclonal antibody. |

## Properties

<table>
<thead>
<tr>
<th><strong>Form</strong></th>
<th>Liquid</th>
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</thead>
<tbody>
<tr>
<td><strong>Storage instructions</strong></td>
<td>Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.</td>
</tr>
</tbody>
</table>
| **Storage buffer** | pH: 7.20  
Preservative: 0.01% Sodium azide  
Constituents: 59% PBS, 40% Glycerol, 0.5% BSA |
| **Purity** | Protein A purified |
Purification notes
This antibody is not purified: it is provided as cell supernatant and storage buffer.

Clonality
Monoclonal

Clone number
EP260Y

Isotype
IgG

Applications

Our Abpromise guarantee covers the use of ab46800 in the following tested applications.
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

<table>
<thead>
<tr>
<th>Application</th>
<th>Abreviews</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>WB</td>
<td></td>
<td>1/1000 - 1/5000. Detects a band of approximately 170 kDa (predicted molecular weight: 132 kDa).</td>
</tr>
</tbody>
</table>

Application notes
Is unsuitable for Flow Cyt, ICC/IF, IHC-P or IP.

Target

Function
May mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to the regulatory p85 subunit.

Involvement in disease
Polymorphisms in IRS1 may be involved in the etiology of non-insulin-dependent diabetes mellitus (NIDDM) [MIM:125853].

Sequence similarities
Contains 1 IRS-type PTB domain.
Contains 1 PH domain.

Post-translational modifications
Serine phosphorylation of IRS1 is a mechanism for insulin resistance. Ser-312 phosphorylation inhibits insulin action through disruption of IRS1 interaction with the insulin receptor.
Phosphorylation of Tyr-896 is required for GRB2-binding.

Images
Anti-IRS1 antibody [EP260Y] (ab46800) + HEK-293 (Human embryonic kidney epithelial cell) whole cell lysates at 15 µg

**Secondary**

Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

(Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated)

**Predicted band size:** 132 kDa

**Observed band size:** 170 kDa

*why is the actual band size different from the predicted?*

**Exposure time:** 3 minutes

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

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

- Replacement or refund for products not performing as stated on the datasheet
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- 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 [https://www.abcam.com/abpromise](https://www.abcam.com/abpromise) or contact our technical team.

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