

## Datasheet: AHP2637

|                      |                            |
|----------------------|----------------------------|
| <b>Description:</b>  | RABBIT ANTI IRS1 (pSer636) |
| <b>Specificity:</b>  | IRS1 (pSer636)             |
| <b>Format:</b>       | Purified                   |
| <b>Product Type:</b> | Polyclonal Antibody        |
| <b>Isotype:</b>      | Polyclonal IgG             |
| <b>Quantity:</b>     | 50 µl                      |

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

|                  | Yes | No | Not Determined | Suggested Dilution |
|------------------|-----|----|----------------|--------------------|
| Western Blotting | ▪   |    |                | 1/1000 - 1/3000    |

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

|                                 |   |
|---------------------------------|---|
| <b>Target Species</b>           | Human   |
| <b>Species Cross Reactivity</b> | <p>Reacts with: Mouse</p> <p><b>N.B.</b> Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.</p> |
| <b>Product Form</b>             | Purified IgG - liquid   |
| <b>Antiserum Preparation</b>    | Antiserum to IRS1 (pSer636) was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.   |
| <b>Buffer Solution</b>          | Phosphate buffered saline   |
| <b>Preservative Stabilisers</b> | 0.02% Sodium Azide<br>50% Glycerol  |
| <b>Immunogen</b>                | Phospho specific-peptide corresponding to residues surrounding serine 636 of human IRS1   |

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**External Database****Links****UniProt:**

[P35568](#)    [Related reagents](#)

**Entrez Gene:**

[3667](#)    IRS1    [Related reagents](#)

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**Specificity**

**Rabbit anti IRS1 (pSer636) antibody** recognizes insulin receptor substrate 1 (IRS1), when phosphorylated at serine 636. IRS proteins are substrates of the insulin receptor tyrosine kinase and play a key role in insulin signaling.

IRS1 is phosphorylated at serine 636 by mTOR and p70S6K ([Tzatsos 2009](#), [Zhang et al. 2008](#)).

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**Further Reading**

1. Tzatsos, A. (2009) Raptor binds the SAIN (Shc and IRS-1 NPXY binding) domain of insulin receptor substrate-1 (IRS-1) and regulates the phosphorylation of IRS-1 at Ser-636/639 by mTOR. [J Biol Chem. 284 \(34\): 22525-34.](#)
  2. Zhang, J. et al. (2008) S6K directly phosphorylates IRS-1 on Ser-270 to promote insulin resistance in response to TNF-(alpha) signaling through IKK2. [J Biol Chem. 283 \(51\): 35375-82.](#)
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**Storage**

Store at -20°C

Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety Information**

Material Safety Datasheet documentation #10049 available at: 10049: <https://www.bio-rad-antibodies.com/uploads/MSDS/10049.pdf>

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)    [FITC](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

Sheep Anti Rabbit IgG (STAR35...)    [RPE](#)

Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR36...)    [DyLight@488](#), [DyLight@680](#), [DyLight@800](#)

### Recommended Useful Reagents

[TidyBlot WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

**North & South America**    Tel: +1 800 265 7376  
Fax: +1 919 878 3751

**Worldwide**    Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739

**Europe**    Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://bio-rad-antibodies.com/datasheets)

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