

Datasheet for ABIN742787

## anti-IRS1 antibody (pSer636, pSer639) (HRP)



[Go to Product page](#)

### Overview

|                      |                                                                                           |
|----------------------|-------------------------------------------------------------------------------------------|
| Quantity:            | 100 µL                                                                                    |
| Target:              | IRS1                                                                                      |
| Binding Specificity: | pSer636, pSer639                                                                          |
| Reactivity:          | Human, Mouse, Rat                                                                         |
| Host:                | Rabbit                                                                                    |
| Clonality:           | Polyclonal                                                                                |
| Conjugate:           | This IRS1 antibody is conjugated to HRP                                                   |
| Application:         | Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)) |

### Product Details

|                       |                                                                                                                                                                                                                                                                                                                            |
|-----------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Immunogen:            | KLH conjugated synthetic phosphopeptide derived from human IRS1 around the phosphorylation site of Ser636/639 [PM(p-S)PK(p-S)VS]                                                                                                                                                                                           |
| Isotype:              | IgG                                                                                                                                                                                                                                                                                                                        |
| Specificity:          | This phosphorylation site is homologous to Ser632 + ser635 in Mouse and Rat IRS1. This protein is known to be highly conserved in this sequences region, thus , this antibody may react with IRS2 when phosphorylated at Ser679 + Ser682 in Human , Ser675 + Ser678 in Mouse, and Ser676 +Ser679 in Rat based on homology. |
| Cross-Reactivity:     | Human, Mouse, Rat                                                                                                                                                                                                                                                                                                          |
| Predicted Reactivity: | Dog,Cow,Pig,Horse,Rabbit                                                                                                                                                                                                                                                                                                   |
| Purification:         | Purified by Protein A.                                                                                                                                                                                                                                                                                                     |

## Target Details

|                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Target:           | IRS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Alternative Name: | IRS1 + ( <a href="#">IRS1 Products</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Background:       | <p>Synonyms: HIRS-1, Insulin receptor substrate 1, IRS-1, IRS1</p> <p>Background: 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 (By similarity).</p>                                           |
| Gene ID:          | 3667                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| UniProt:          | <a href="#">P35568</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Pathways:         | <a href="#">Fc-epsilon Receptor Signaling Pathway</a> , <a href="#">EGFR Signaling Pathway</a> , <a href="#">Neurotrophin Signaling Pathway</a> , <a href="#">Positive Regulation of Peptide Hormone Secretion</a> , <a href="#">Hormone Transport</a> , <a href="#">Negative Regulation of Hormone Secretion</a> , <a href="#">Response to Growth Hormone Stimulus</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> |

## Application Details

|                    |                                  |
|--------------------|----------------------------------|
| Application Notes: | WB 1:300-5000<br>IHC-P 1:200-400 |
| Restrictions:      | For Research Use only            |

## Handling

|                    |                                                                                                                    |
|--------------------|--------------------------------------------------------------------------------------------------------------------|
| Format:            | Liquid                                                                                                             |
| Concentration:     | 1 µg/µL                                                                                                            |
| Buffer:            | Aqueous buffered solution containing 0.01M TBS ( pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.        |
| Preservative:      | ProClin                                                                                                            |
| Precaution of Use: | This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only. |
| Handling Advice:   | Do NOT add Sodium Azide! Use of Sodium Azide will inhibit enzyme activity of horseradish peroxidase.               |
| Storage:           | -20 °C                                                                                                             |

## Handling

---

|                  |                                                                                   |
|------------------|-----------------------------------------------------------------------------------|
| Storage Comment: | Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles. |
|------------------|-----------------------------------------------------------------------------------|

---

|              |           |
|--------------|-----------|
| Expiry Date: | 12 months |
|--------------|-----------|