Datasheet for ABIN742795

# anti-IRS1 antibody (pSer789) (Biotin)

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## Overview

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|---|---|
| Quantity: | 100 µL |
| Target: | IRS1 |
| Binding Specificity: | pSer789 |
| Reactivity: | Human, Rat |
| Host: | Rabbit |
| Clonality: | Polyclonal |
| Conjugate: | This IRS1 antibody is conjugated to Biotin |
| Application: | ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunohistochemistry (Frozen Sections) (IHC (fro)) |

## Product Details

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|---|---|
| Immunogen: | KLH conjugated synthetic phosphopeptide derived from mouse IRS1 around the phosphorylation site of Ser789 |
| Isotype: | IgG |
| Cross-Reactivity: | Human, Rat |
| Predicted Reactivity: | Mouse |
| Purification: | Purified by Protein A. |

## Target Details

| | |
|---|---|
| Target: | IRS1 |

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## Target Details

| | |
|---|---|
| Alternative Name: | IRS1 (IRS1 Products) |
| Background: | Synonyms: p-IRS1, IRS1Ser789, HIRS 1, HIRS1, Insulin Receptor Substrate 1, IRS-1, IRS 1, IRS1, OTTHUMP00000164234, IRS1_HUMAN.<br>Background: Insulin receptor substrates (IRS) are responsible for several insulin related activities, such as glucose homeostasis, cell growth, cell transformation, apoptosis and insulin signal transduction. Serine/threonine phosphorylation of IRS1 has been demonstrated to be a negative regulator of insulin signaling and is responsible for its degradation, although IRS1 degradation pathways are not well understood. IRS1 has also been shown to be constitutively activated in cancers such as breast cancer, Wilm's tumors, and adrenal cortical carcinomas, thus making IRS1 phosphorylation and subsequent degradation an attractive therapeutic target. To date there have been four subtypes identified: IRS1, 2, 3 and 4, with IRS1 being widely expressed. |
| Gene ID: | 16367 |
| Pathways: | Fc-epsilon Receptor Signaling Pathway, EGFR Signaling Pathway, Neurotrophin Signaling Pathway, Positive Regulation of Peptide Hormone Secretion, Hormone Transport, Negative Regulation of Hormone Secretion, Response to Growth Hormone Stimulus, Carbohydrate Homeostasis, Regulation of Carbohydrate Metabolic Process |

## Application Details

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| Application Notes: | IHC-P 1:200-400<br>IHC-F 1:100-500 |
| Restrictions: | For Research Use only |

## Handling

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|---|---|
| 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. |
| Storage: | -20 °C |

## Handling

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|---|---|
| Storage Comment: | Store at -20°C for 12 months. |
| Expiry Date: | 12 months |

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