

## Product datasheet

# Human IRS1 (phospho S636) peptide ab41771

### Overview

**Product name** Human IRS1 (phospho S636) peptide

### Description

**Nature** Synthetic

**Amino Acid Sequence**

**Species** Human

**Sequence** DYMPMS<sub>p</sub>PKSVSAPQQI

**Amino acids** 631 to 646

### Specifications

Our [Abpromise guarantee](#) covers the use of **ab41771** in the following tested applications.

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

**Applications** Neutralising  
competitive binding assays

Blocking

**Form** Liquid

### Preparation and Storage

**Stability and Storage** Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

### General Info

**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.

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