abcam

Product datasheet

Anti-IRS1 antibody ab65746

1 Image

Overview

Product name	Anti-IRS1 antibody
Description	Sheep polyclonal to IRS1
Host species	Sheep
Tested applications	**Suitable for:** WB
Species reactivity	**Reacts with:** Chinese hamster **Predicted to work with:** Chicken, Pig
Immunogen	Synthetic peptide: CSISFQKQPEDRQ conjugated to KLH, corresponding to C terminal amino acids 1231-1242 of Human IRS1 Run BLAST with Run BLAST with
Positive control	CHO-IR cell extracts.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.50 Preservative: 0.05% Sodium azide Constituents: 0.238% HEPES, 0.87% Sodium chloride
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab65746 in the following tested applications.

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

Application	Abreviews	Notes
WB		Use a concentration of 2 µg/ml. Detects a band of approximately 200 kDa (predicted molecular weight: 132 kDa).

Target

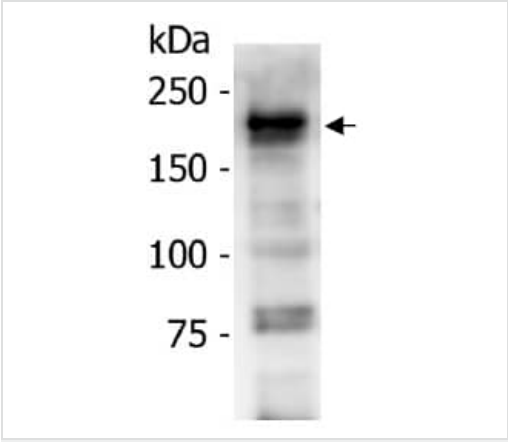
Function May mediate the control of various cellular processes by insulin. When phosphorylated by the insulin receptor binds specifically to various cellular proteins containing SH2 domains such as phosphatidylinositol 3-kinase p85 subunit or GRB2. Activates phosphatidylinositol 3-kinase when bound to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



Western blot - Anti-IRS1 antibody (ab65746)

Anti-IRS1 antibody (ab65746) at 2 µg/ml + CHO-IR cell extracts

Predicted band size: 132 kDa

Observed band size: 200 kDa

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