


Anti-IRS1 (phospho S312) antibody ab4865

3 References **1 图像**

概述

产品名称	Anti-IRS1 (phospho S312)抗体
描述	兔多克隆抗体to IRS1 (phospho S312)
宿主	Rabbit
经测试应用	适用于: WB
种属反应性	与反应: Human 预测可用于: Mouse, Rat, Pig 
免疫原	Synthetic peptide corresponding to Human IRS1 (phospho S312).
阳性对照	Phorbol ester stimulated (TPA) Chinese Hamster Ovary cell line expressing human insulin receptor (CHO-T) and transiently transfected with a plasmid encoding human IRS 1.
常规说明	<p>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.</p> <p>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</p>

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: PBS, Glycerol (glycerin, glycerine), 0.1% BSA
纯度	Immunogen affinity purified
纯化说明	Purified from rabbit serum by sequential epitope-specific chromatography. The antibody has been negatively preadsorbed using a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with non-phosphorylated IRS 1. The final product is generated by affinity chromatography using an IRS 1-derived peptide phosphorylated at serine 312.

克隆

多克隆

同种型

IgG

应用

The Abpromise guarantee

Abpromise™承诺保证使用ab4865于以下的经测试应用

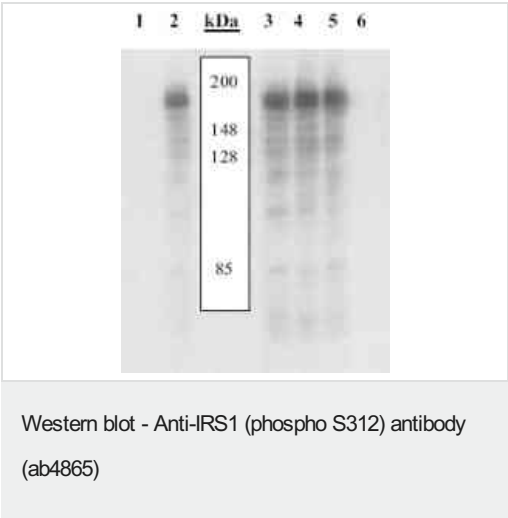
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB		1/1000. Predicted molecular weight: 165 kDa.

靶标

功能	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.
疾病相关	Polymorphisms in IRS1 may be involved in the etiology of non-insulin-dependent diabetes mellitus (NIDDM) [MIM:125853].
序列相似性	Contains 1 IRS-type PTB domain. Contains 1 PH domain.
翻译后修饰	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.

图片



Peptide Competition and Phosphatase Stripping: Extracts prepared from CHO-T cells transiently transfected with wild-type human IRS 1 and treated with TPA were resolved by SDS-PAGE on a 10% polyacrylamide gel and transferred to PVDF. Membranes were treated with lambda phosphatase (1) or left untreated (2-6), blocked with a 5% BSA-TBST buffer overnight at 4°C, then incubated with 0.50 µg/mL ab4865 antibody for two hours at room temperature in a 3% BSA-TBST buffer, following prior incubation with: no peptide (1-3), the non-phosphopeptide corresponding to the immunogen (4), a generic phosphoserine containing peptide (5), or, the phosphopeptide immunogen (6). After washing, membranes were incubated with goat F(ab')₂ anti-rabbit IgG alkaline phosphatase and signals were detected using the Tropix WesternStar method. The data show that only the peptide corresponding to ab4865 blocks the antibody signal, thereby demonstrating the specificity of the anti

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