


## Product datasheet

# Anti-IRS1 (phospho S616) antibody ab4776

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### 製品の概要

<b>製品名</b>	Anti-IRS1 (phospho S616) antibody
<b>製品の詳細</b>	Rabbit polyclonal to IRS1 (phospho S616)
<b>由来種</b>	Rabbit
<b>アプリケーション</b>	<b>適用あり:</b> IHC-P, WB
<b>種交差性</b>	<b>交差種:</b> Mouse, Human <b>交差が予測される動物種:</b> Rat 
<b>免疫原</b>	Synthetic peptide corresponding to IRS1 (phospho S616).
<b>ポジティブ・コントロール</b>	WB: HEK-293T cells. IHC-P: Human breast carcinoma tissue, mouse skeletal muscle tissue.
<b>特記事項</b>	<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&amp;As</p>

### 製品の特性

<b>製品の状態</b>	Liquid
<b>保存方法</b>	Shipped at 4°C. Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
<b>バッファー</b>	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: PBS, 0.1% BSA, 50% Glycerol
<b>精製度</b>	BSA is IgG and protease free Immunogen affinity purified
<b>特記事項 (精製)</b>	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 insulin receptor substrate 1 (IRS 1).
<b>ポリ/モノ</b>	ポリクローナル

## アプリケーション

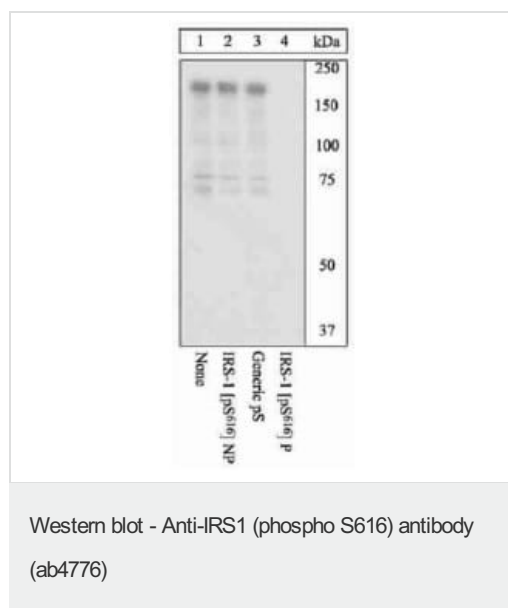
**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab4776の使用に適用されます**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
IHC-P		1/10 - 1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		1/1000. Predicted molecular weight: 165 kDa.

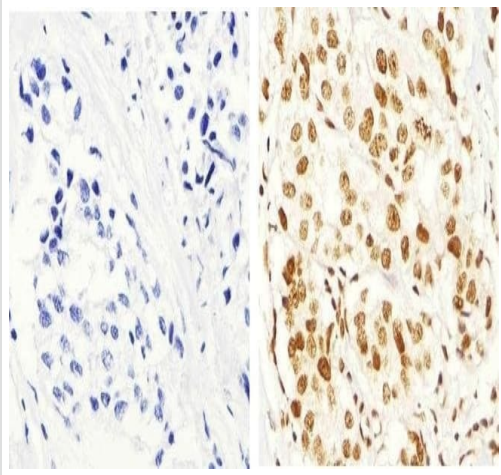
## ターゲット情報

<b>機能</b>	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.
<b>関連疾患</b>	Polymorphisms in IRS1 may be involved in the etiology of non-insulin-dependent diabetes mellitus (NIDDM) [MIM:125853].
<b>配列類似性</b>	Contains 1 IRS-type PTB domain. Contains 1 PH domain.
<b>翻訳後修飾</b>	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.

## 画像

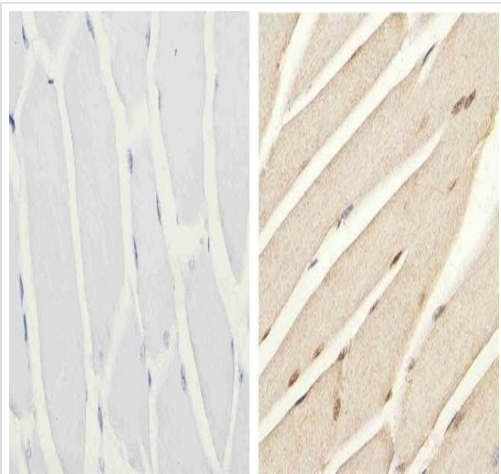


Extracts of 293T cells transfected with wild-type human IRS1 and treated with 100 ng/mL TPA for 30 minutes were resolved by SDS-PAGE on a 10% Tris-glycine gel and transferred to PVDF.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRS1 (phospho S616) antibody (ab4776)

Immunohistochemistry analysis of IRS1 (phospho S616) showing staining in the nucleus of paraffin-embedded human breast carcinoma tissue (right) compared to a negative control without primary antibody (left). Antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Tissues were blocked in 3% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with ab4776 diluted in 3% BSA-PBS at a dilution of 1/100 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRS1 (phospho S616) antibody (ab4776)

Immunohistochemistry analysis of IRS1 (phospho S616) showing staining in the nucleus of paraffin-embedded mouse skeletal muscle tissue (right) compared to a negative control without primary antibody (left). Antigen retrieval was performed using 10mM sodium citrate (pH 6.0), microwaved for 8-15 min. Following antigen retrieval, tissues were blocked in 3% H<sub>2</sub>O<sub>2</sub>-methanol for 15 min at room temperature, washed with ddH<sub>2</sub>O and PBS, and then probed with ab4776 diluted in 3% BSA-PBS at a dilution of 1/20 overnight at 4°C in a humidified chamber. Tissues were washed extensively in PBST and detection was performed using an HRP-conjugated secondary antibody followed by colorimetric detection using a DAB kit. Tissues were counterstained with hematoxylin and dehydrated with ethanol and xylene to prep for mounting.

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