

### Anti-IRE1 (phospho S724) antibody ab48187

★★★★★ [19 Abreviews](#) [257 References](#) [6 图像](#)

#### 概述

|       |   |
|-------|---|
| 产品名称  | Anti-IRE1 (phospho S724)抗体  |
| 描述    | 兔多克隆抗体to IRE1 (phospho S724)  |
| 宿主    | Rabbit  |
| 经测试应用 | 适用于: WB, ELISA, IHC-P   |
| 种属反应性 | 与反应: Mouse, Human, Recombinant fragment   |
| 免疫原   | Synthetic peptide corresponding to Human IRE1 (phospho S724).<br>Database link: <a href="#">O75460</a><br>(Peptide available as <a href="#">ab110445</a> )  |
| 阳性对照  | WB: HeLa, Min6, transfected COS-7 cells. IHC-P: Human spleen tissue.  |
| 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&amp;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: 7.40<br>Preservative: 0.025% Sodium azide<br>Constituent: PBS                                       |
| 纯度   | Immunogen affinity purified   |
| 克隆   | 多克隆   |
| 同种型  | IgG   |

#### 应用

The Abpromise guarantee

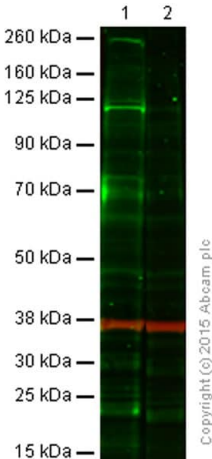
Abpromise™承诺保证使用ab48187于以下的经测试应用

“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    | ★★★★★ (14) | 1/1000 - 1/2000. Predicted molecular weight: 110 kDa.<br>Block with 3-5% BSA. |
| ELISA |            | 1/100 - 1/2000.   |
| IHC-P | ★★★★★ (1)  | 1/300.  |

|       |  |
|-------|--|
| 靶标    |  |
| 功能    | Senses unfolded proteins in the lumen of the endoplasmic reticulum via its N-terminal domain which leads to enzyme auto-activation. The active endoribonuclease domain splices XBP1 mRNA to generate a new C-terminus, converting it into a potent unfolded-protein response transcriptional activator and triggering growth arrest and apoptosis. |
| 组织特异性 | Ubiquitously expressed. High levels observed in pancreatic tissue.   |
| 序列相似性 | Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.<br>Contains 1 KEN domain.<br>Contains 1 protein kinase domain.   |
| 翻译后修饰 | Autophosphorylated.  |
| 细胞定位  | Endoplasmic reticulum membrane.  |

图片



Western blot - Anti-IRE1 (phospho S724) antibody (ab48187)

**All lanes** : Anti-IRE1 (phospho S724) antibody (ab48187) at 1/2000 dilution

**Lane 1** : HeLa cells 30 nM Calyculin A: AP-buffer

**Lane 2** : HeLa cells 30 nM Calyculin A: Alkaline Phosphatase

Lysates/proteins at 20 µg per lane.

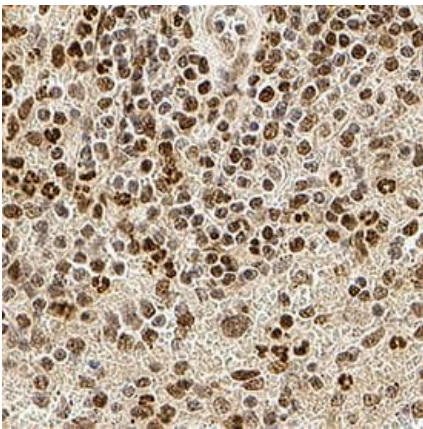
**Secondary**

**All lanes** : infrared (IR)-labelled goat anti-rabbit (green) antibody and IR-labelled goat anti-mouse (red) at 1/10000 dilution

Performed under reducing conditions.

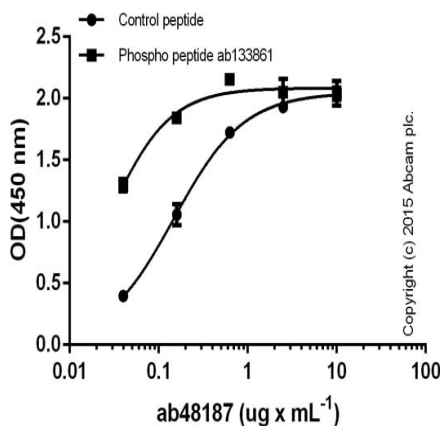
**Predicted band size:** 110 kDa

The blots were produced using a 4-12% Bis-tris gel under the MOPS buffer system. The gel was run at 200V for 50 minutes before being transferred onto a Nitrocellulose membrane at 30V for 70 minutes. The membranes were blocked for an hour. Membrane 2 was incubated with alkaline phosphatase (AP; 100 U per mL) for one hour, whilst membrane 1 was treated with AP-buffer only, before being incubated with ab48187 (rabbit anti-IRE1 antibody diluted 1:2000) and loading control **ab125247** (mouse anti-GAPDH antibody; diluted 1:10,000) for 24 hours at 4°C. Antibody binding was detected using infrared (IR)-labelled goat anti-rabbit (green) antibody and IR-labelled goat anti-mouse (red) at 1:10,000 dilutions for 1 hour at room temperature before imaging.



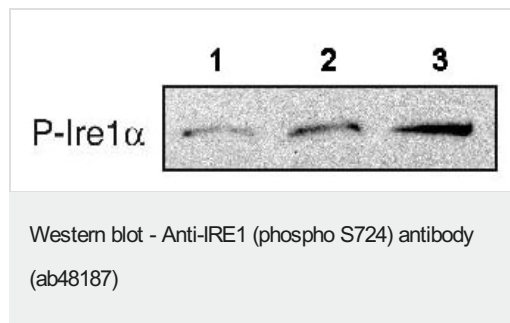
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRE1 (phospho S724) antibody (ab48187)

Paraffin-embedded human spleen tissue stained for IRE1 using ab48187 at 1/300 dilution for 1 hour at room temperature in immunohistochemical analysis. DAB staining. Counter stained with hematoxylin.



ELISA - Anti-IRE1 (phospho S724) antibody (ab48187)

Serially diluted ab48187 was bound to immobilised Phospho peptide (133861) - or Control peptide (1 microgram x mL<sup>-1</sup>). The antibody was detected by HRP-labelled goat anti-rabbit IgG (**ab97080**; diluted 50000 times) and signal was developed with TMB substrate.



**All lanes :** Anti-IRE1 (phospho S724) antibody (ab48187) at 1/1000 dilution

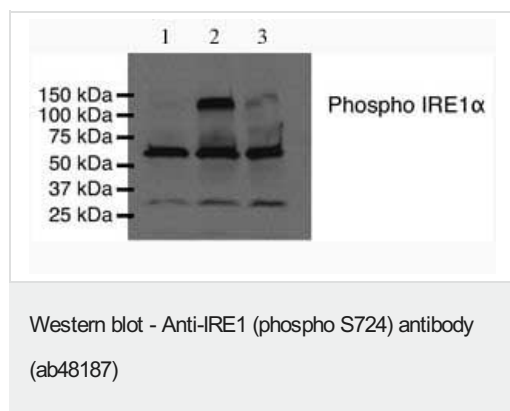
**Lane 1 :** Min6 cells untreated

**Lane 2 :** Min6 cells treated with glucose for 3 hours at 5 mM

**Lane 3 :** Min6 cells treated with glucose for 3 hours at 20 mM

Developed using the ECL technique.

**Predicted band size:** 110 kDa



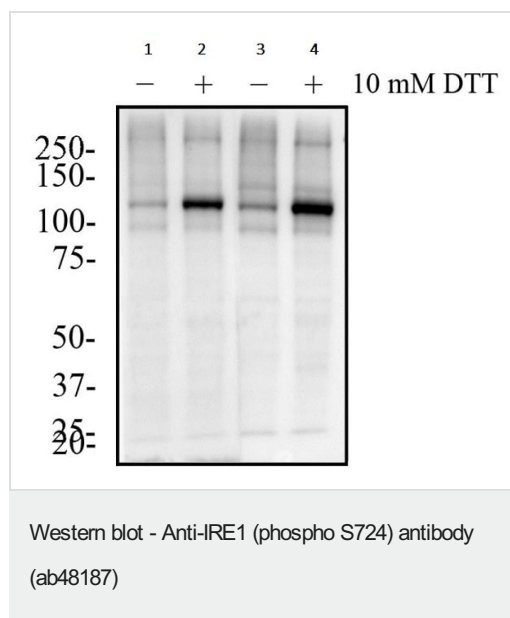
**All lanes :** Anti-IRE1 (phospho S724) antibody (ab48187) at 1/2000 dilution

**Lane 1 :** Cell lysate prepared from COS-7 Untransfected cells

**Lane 2 :** Cell lysate prepared from COS-7 cells expressing wild type IRE1 alpha

**Lane 3 :** Cell lysate prepared from COS-7 cells expressing kinase-dead IRE1 alpha

**Predicted band size:** 110 kDa



**All lanes :** Anti-IRE1 (phospho S724) antibody (ab48187) at 2 µg/ml

**Lane 1 :** Untreated HeLa cells (Batch 1 ab48187)

**Lane 2 :** DTT-treated HeLa cells (Batch 1 ab48187)

**Lane 3 :** Untreated HeLa cells (Batch 2 ab48187)

**Lane 4 :** DTT-treated HeLa cells (Batch 2 ab48187)

**Secondary**

**All lanes :** Anti-Rabbit IgG HRP

**Predicted band size:** 110 kDa

HeLa cells were treated (+) or untreated (-) with 10 mM DTT for 60 min to activate the UPR. Total protein was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% BSA in TBST.

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