abcam

Product datasheet

Anti-IRE1 (phospho S724) antibody ab48187

19 Abreviews 257 References 画像数 6

製品の概要

製品名	Anti-IRE1 (phospho S724) antibody
製品の詳細	Rabbit polyclonal to IRE1 (phospho S724)
由来種	Rabbit
アプリケーション	**適用あり:** WB, ELISA, IHC-P
種交差性	**交差種:** Mouse, Human, Recombinant fragment
免疫原	Synthetic peptide corresponding to Human IRE1 (phospho S724). Database link: **O75460** (Peptide available as **ab110445**)
ポジティブ・コントロール	WB: HeLa, Min6, transfected COS-7 cells. IHC-P: Human spleen tissue.
特記事項	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

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.40 Preservative: 0.025% Sodium azide Constituent: PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

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ab48187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
WB	★★★★☆ (14)	1/1000 - 1/2000. Predicted molecular weight: 110 kDa. Block with 3-5% BSA.
ELISA		1/100 - 1/2000.
IHC-P	★★★★★ (1)	1/300.

ターゲット情報

機能 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.

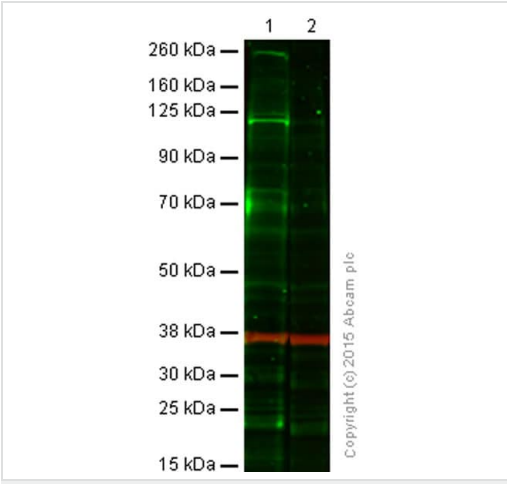
組織特異性 Ubiquitously expressed. High levels observed in pancreatic tissue.

配列類似性 Belongs to the protein kinase superfamily. Ser/Thr protein kinase family.
Contains 1 KEN domain.
Contains 1 protein kinase domain.

翻訳後修飾 Autophosphorylated.

細胞内局在 Endoplasmic reticulum membrane.

画像



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.

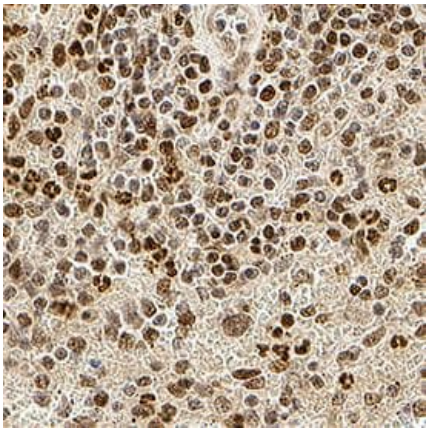
Secondary

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.

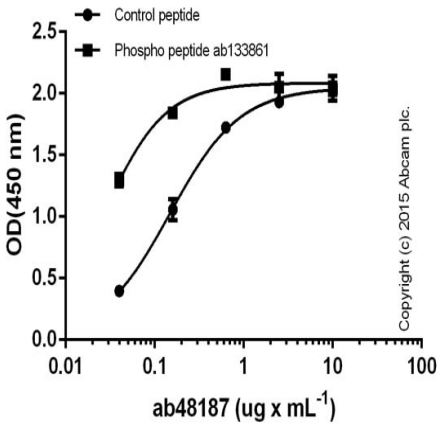
Predicted band size: 110 kDa

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.



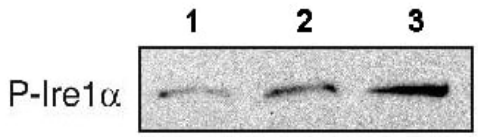
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-IRE1 (phospho S724) antibody (ab48187)

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-1). The antibody was detected by HRP-labelled goat anti-rabbit IgG (**ab97080**; diluted 50000 times) and signal was developed with TMB substrate.



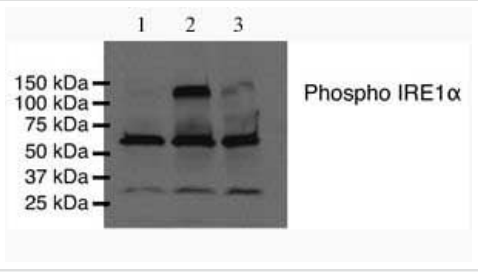
Western blot - Anti-IRE1 (phospho S724) antibody (ab48187)

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

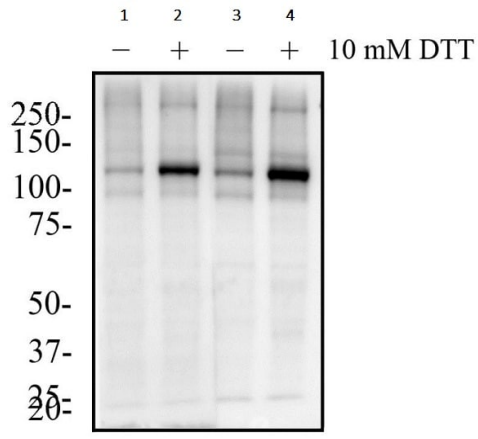


Western blot - Anti-IRE1 (phospho S724) antibody (ab48187)

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



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

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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