

Product datasheet

Anti-IRE1 (phospho S724) antibody [EPR5253] ab124945

Recombinant RabMAb

★★★★★ 7 Abreviews 92 References 4 Images

Overview

Product name	Anti-IRE1 (phospho S724) antibody [EPR5253]
Description	Rabbit monoclonal [EPR5253] to IRE1 (phospho S724)
Host species	Rabbit
Tested applications	Suitable for: WB, Dot blot Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide within Human IRE1 aa 700-800 (phospho S724). The exact sequence is proprietary. Database link: O75460
Positive control	WB: Thapsigargin treated HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysate, DTT treated HEK-293 (Human embryonic kidney epithelial cell) whole cell lysate.
General notes	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Dissociation constant (K _D)	K _D = 1.10 x 10 ⁻¹⁰ M





[Learn more about K_D](#)

Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR5253
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124945 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

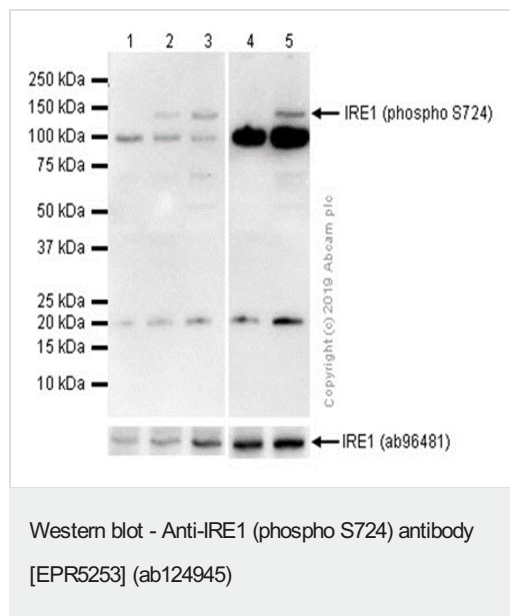
Application	Abreviews	Notes
WB	★★★★★ (5)	1/200 - 1/10000. Predicted molecular weight: 110 kDa.
Dot blot		1/1000.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

Function	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.
Tissue specificity	Ubiquitously expressed. High levels observed in pancreatic tissue.
Sequence similarities	Belongs to the protein kinase superfamily. Ser/Thr protein kinase family. Contains 1 KEN domain. Contains 1 protein kinase domain.
Post-translational modifications	Autophosphorylated.
Cellular localization	Endoplasmic reticulum membrane.

Images



All lanes : Anti-IRE1 (phospho S724) antibody [EPR5253] (ab124945) at 1/200 dilution

Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 1uM Thapsigargin for 1 hour whole cell lysates

Lane 3 : HeLa (Human cervix adenocarcinoma epithelial cell) treated with 1uM Thapsigargin for 6 hours whole cell lysates

Lane 4 : HEK-293 (Human embryonic kidney epithelial cell) whole cell lysates

Lane 5 : HEK-293 (Human embryonic kidney epithelial cell) treated with 10mM DTT for 1 hour whole cell lysates

Lysates/proteins at 20 µg per lane.

Secondary

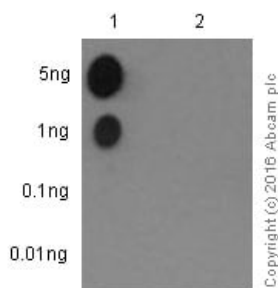
All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Predicted band size: 110 kDa

Observed band size: 110 kDa

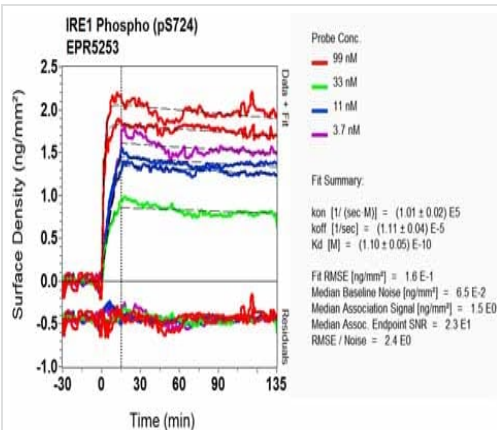
Exposure time: 180 seconds

Blocking/Diluting buffer and concentration: 5% NFDM/TBST.



Dot Blot - Anti-IRE1 (phospho S724) antibody
[EPR5253] (ab124945)

Dot Blot analysis of Lane 1: IRE1 (pS724) phospho peptide and Lane 2: IRE1 non-phospho peptide labeling IRE1 (phospho S724) with ab124945 at 1/1000 dilution. 5% NFDm/TBST was used as the diluting and blocking buffer. [ab97051](#) Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated was used as the secondary antibody at 1/100000 dilution. Exposure time: 3 minutes.



OIR-D Scanning - Anti-IRE1 (phospho S724)
antibody [EPR5253] (ab124945)

Equilibrium dissociation constant (K_D)

Learn more about K_D

[Click here to learn more about \$K_D\$](#)

Why choose a
recombinant antibody?



**Research with
confidence**
Consistent and
reproducible results



**Long-term and
scalable supply**
Recombinant
technology



**Success from the
first experiment**
Confirmed
specificity



**Ethical standards
compliant**
Animal-free
production

Anti-IRE1 (phospho S724) antibody [EPR5253]
(ab124945)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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