abcam

Product datasheet

Anti-IRE1 antibody [9F2] ab96481

★★★★★ 6 Abreviews 9 References 3 Images

Overview

Product name Anti-IRE1 antibody [9F2]

Description Mouse monoclonal [9F2] to IRE1

Host species Mouse

Tested applications Suitable for: WB, IHC-P, Flow Cyt

Species reactivity Reacts with: Human

Immunogen Purified recombinant fragment of Human IRE1 (aa282-433) expressed in E.coli.

Positive control Raji, A431, Jurkat, Hela and HEK293 cell lysate; Human brain and stomach tissue.

General notesThe 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

Properties

Form Liquid

Storage instructions Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.

Storage buffer Preservative: 0.05% Sodium azide

Constituent: PBS

Purity Protein G purified

Purification notes Purified from tissue culture supernatant.

Clonality Monoclonal

Clone number 9F2 Isotype IgG1

Applications

1

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab96481 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	★★★ ☆☆ (3)	1/500 - 1/2000. Predicted molecular weight: 110 kDa.
IHC-P	**** (1)	1/200 - 1/1000.
Flow Cyt		1/100 - 1/400. ab170190 - Mouse monoclonal lgG1, is suitable for use as an isotype control with this antibody.

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.

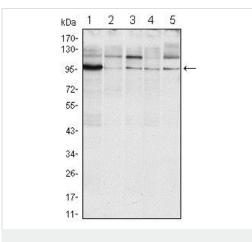
Contains 1 protein kinase domain.

Post-translational modifications

Autophosphorylated.

Cellular localization Endoplasmic reticulum membrane.

Images



Western blot - Anti-IRE1 antibody [9F2] (ab96481)

All lanes: Anti-IRE1 antibody [9F2] (ab96481) at 1/500 dilution

Lane 1: Raji cell lysate

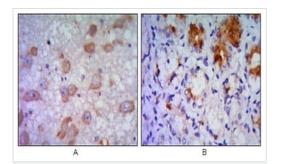
Lane 2: A431 cell lysate

Lane 3: Jurkat cell lysate

Lane 4: HeLa cell lysate

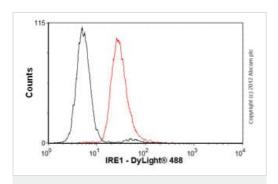
Lane 5: HEK293 cell lysate

Predicted band size: 110 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffinembedded sections) - Anti-IRE1 antibody [9F2] (ab96481)

Immunohistochemical analysis of paraffin-embedded Human brain tissue (A) and stomach tissue (B), showing cytoplasmic localization using ab96481 at 1/200 dilution with DAB staining.



Flow Cytometry - Anti-IRE1 antibody [9F2] (ab96481)

Overlay histogram showing Raji cells stained with ab96481 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab96481, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-mouse IgG (H+L) (ab96879) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (ab91353, 2µg/1x10⁶ cells) used under the same conditions. Acquisition of >5,000 events was performed. This antibody gave a positive signal in Raji cells fixed with 4% paraformaldehyde (10 min)/permeabilized with 0.1% PBS-Tween for 20 min used under the same conditions.

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.com/abpromise** or contact our technical team.

Terms and conditions

• Guarantee only valid for products bought direct from Abcam or one of our authorized distributors