abcam

Product datasheet

Anti-IREB2/IRP2 antibody ab106926

1 References 1 Image

Overview

Product name	Anti-IREB2/IRP2 antibody
Description	Goat polyclonal to IREB2/IRP2
Host species	Goat
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Cow, Pig, Orangutan
Immunogen	Synthetic peptide corresponding to Human IREB2/IRP2 aa 489-503 (internal sequence). Sequence: C-SIHYEGSEYKLSHGS Database link: **NP_004127.1** Run BLAST with Run BLAST with
Positive control	WB: Human Liver lysate
General notes	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

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	ab106926 was purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab106926 in the following tested applications.

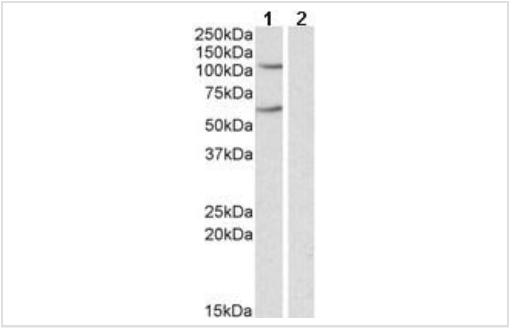
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		Use a concentration of 3 - 6 µg/ml.
WB		Use a concentration of 1 - 3 µg/ml. Detects a band of approximately 110 kDa (predicted molecular weight: 105 kDa). 1 hour primary incubation is recommended for this product.

Target

Function	RNA-binding protein that binds to iron-responsive elements (IRES), which are stem-loop structures found in the 5'-UTR of ferritin, and delta aminolevulinic acid synthase mRNAs, and in the 3'-UTR of transferrin receptor mRNA. Binding to the IRE element in ferritin results in the repression of its mRNA translation. Binding of the protein to the transferrin receptor mRNA inhibits the degradation of this otherwise rapidly degraded mRNA.
Sequence similarities	Belongs to the aconitase/IPM isomerase family.
Post-translational modifications	Ubiquitinated and degraded by the proteasome in presence of high level of iron and oxygen. Ubiquitinated by a SCF complex containing FBXL5. Upon iron and oxygen depletion FBXL5 is degraded, preventing ubiquitination and allowing its RNA-binding activity.
Cellular localization	Cytoplasm.

Images



Western blot - Anti-IREB2/IRP2 antibody (ab106926)

All lanes : Anti-IREB2/IRP2 antibody (ab106926) at 0.3 µg/ml

Lane 1 : Human Liver lysate in RIPA buffer

Lane 2 : Human Liver lysate in RIPA buffer with immunizing peptide

Lysates/proteins at 35 µg per lane.

Developed using the ECL technique.

Predicted band size: 105 kDa

Observed band size: 110 kDa

Additional bands at: 60 kDa. We are unsure as to the identity of these extra bands.

Primary incubation was 1 hour.

An additional band of unknown identity was consistently observed at 60kDa. This band was successfully blocked by incubation with the immunizing peptide.

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