

Product datasheet

Anti-HuR / ELAVL1 antibody [4C8] ab136542

KO VALIDATED

[12 References](#) [3 Images](#)

Overview

Product name	Anti-HuR / ELAVL1 antibody [4C8]
Description	Mouse monoclonal [4C8] to HuR / ELAVL1
Host species	Mouse
Specificity	ab136542 was specifically selected because of its ability to supershift HuR/mRNA ribonucleoprotein complexes. ab136542 does not react with HuD, HuC, or Hel-N1.
Tested applications	Suitable for: Flow Cyt, WB, EMSA
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide, corresponding to a region within HuR/ ELAVL1.
Positive control	WB: SW480, HEK293 and HCT116 cell lysates. Flow Cyt: MCF7 cells.
General notes	<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&As</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
Storage buffer	Constituent: PBS
Clonality	Monoclonal
Clone number	4C8
Isotype	IgG1

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab136542 in the following tested applications.

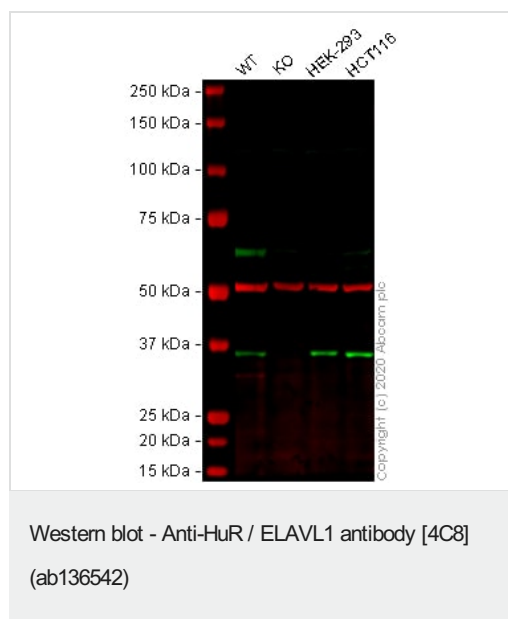
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Flow Cyt		Use 1 µg for 10 ⁶ cells. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
WB		Use at an assay dependent concentration. Predicted molecular weight: 36 kDa.
EMSA		Use at an assay dependent concentration.

Target

Function	Involved in 3'-UTR ARE-mediated MYC stabilization. Binds avidly to the AU-rich element in FOS and IL3/interleukin-3 mRNAs. In the case of the FOS AU-rich element, HUR binds to a core element of 27 nucleotides that contain AUUUA, AUUUUA and AUUUUUA motifs.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the RRM elav family. Contains 3 RRM (RNA recognition motif) domains.
Post-translational modifications	Methylated at Arg-217 by CARM1 in macrophages in response to LPS challenge.
Cellular localization	Cytoplasm.

Images



All lanes : Anti-HuR / ELAVL1 antibody [4C8] (ab136542) at 1 µg/ml

Lane 1 : Wild-type SW480 (Human colorectal adenocarcinoma cell line) whole cell lysate at 40 µg

Lane 2 : ELAVL1 knockout SW480 (Human colorectal adenocarcinoma cell line) whole cell lysate at 40 µg

Lane 3 : HEK-293 (Human epithelial cell line from embryonic kidney) whole cell lysate at 20 µg

Lane 4 : HCT 116 (Human colorectal carcinoma cell line) whole cell lysate at 20 µg

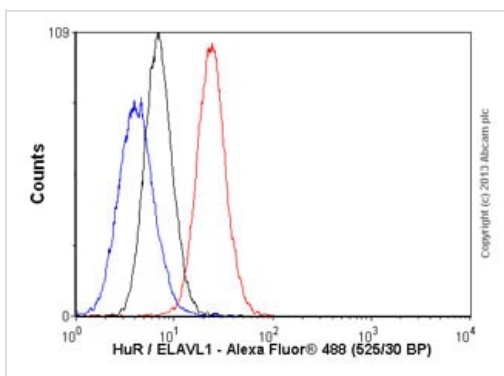
Performed under reducing conditions.

Predicted band size: 36 kDa

Observed band size: 36 kDa

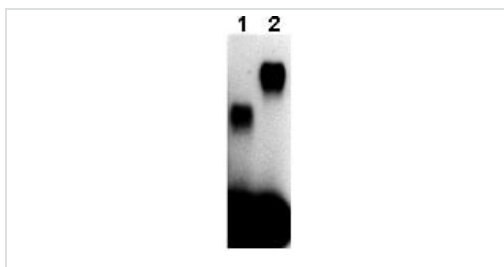
Lanes 1 - 4: Merged signal (red and green). Green - ab136542 observed at 36 kDa. Red - loading control, **ab52866** (Rabbit anti-alpha Tubulin antibody [EP1332Y]) observed at 55kDa.

ab136542 was shown to react with ELAVL1 in wild-type SW480 cells in western blot. Loss of signal was observed when ELAVL1 knockout sample was used. Wild-type and ELAVL1 knockout SW480 cell lysates were subjected to SDS-PAGE. Membranes were blocked in 5% milk in TBS-T (0.1% Tween®) before incubation with ab136542 and **ab52866** (Rabbit anti-alpha Tubulin antibody [EP1332Y]) overnight at 4°C at 1 µg/ml and a 1 in 20000 dilution respectively. Blots were incubated with Goat anti-Mouse IgG H&L (IRDye® 800CW) preabsorbed (**ab216772**) and Goat anti-Rabbit IgG H&L (IRDye® 680RD) preabsorbed (**ab216777**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Flow Cytometry - Anti-HuR / ELAVL1 antibody [4C8] (ab136542)

Overlay histogram showing MCF7 cells stained with ab136542 (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 (ab136542, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (**ab150113**) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG1 [ICIGG1] (**ab91353**, 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Electrophoretic Mobility Shift Assay - Anti-HuR / ELAVL1 antibody [4C8] (ab136542)

Electrophoretic Mobility Shift Assay of HuR/mRNA complex (Lane 1). The complex is significantly supershifted by the addition of 10ng of ab136542 (Lane 2).

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