abcam

Product datasheet

Anti-Hsp47 antibody [134CT7.1.8] ab86750

KO VALIDATED

1 Abreviews 2 Images

Overview

Product name	Anti-Hsp47 antibody [134CT7.1.8]
Description	Mouse monoclonal [134CT7.1.8] to Hsp47
Host species	Mouse
Tested applications	**Suitable for:** WB **Unsuitable for:** Flow Cyt (Intra)
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat, Rabbit, Chicken, Cow, Dog, Pig, Xenopus laevis, Orangutan
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Wild-type HAP1, HeLa, and HepG2 cell lysates.
General notes	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS
Purity	IgG fraction

Clonality	Monoclonal
Clone number	134CT7.1.8
Isotype	IgG1

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab86750 in the following tested applications.

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

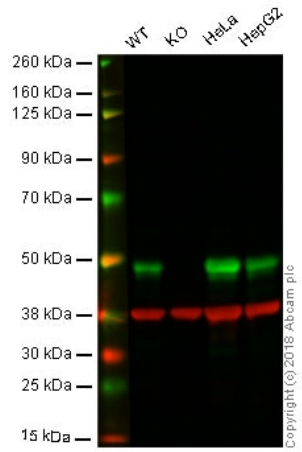
Application	Abreviews	Notes
WB		Use a concentration of 5 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 47 kDa).

Application notes Is unsuitable for Flow Cyt (Intra).

Target

Function	Binds specifically to collagen. Could be involved as a chaperone in the biosynthetic pathway of collagen.
Involvement in disease	Note=Defects in SERPINH1 may cause severe autosomal recessive osteogenesis imperfecta (OI). Osteogenesis imperfecta defines a group of connective tissue disorders characterized by bone fragility and low bone mass.
Sequence similarities	Belongs to the serpin family.
Cellular localization	Endoplasmic reticulum lumen.

Images



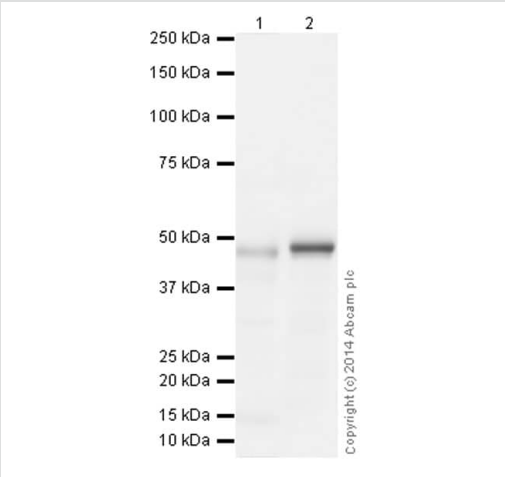
Western blot - Anti-Hsp47 antibody [134CT7.1.8] (ab86750)

Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: Hsp47 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: HepG2 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab86750 observed at 46 kDa. Red - loading control, **ab181602**, observed at 37 kDa.

ab86750 was shown to recognize Hsp47 in wild-type HAP1 cells as signal was lost at the expected MW in Hsp47 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and Hsp47 knockout samples were subjected to SDS-PAGE. ab86750 and **ab181602** (Rabbit anti-GAPDH loading control) were incubated overnight at 4°C at 5 µg/ml and 1/20000 dilution respectively. Blots were developed 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 1/20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Hsp47 antibody [134CT7.1.8] (ab86750)

All lanes : Anti-Hsp47 antibody [134CT7.1.8] (ab86750) at 5 µg/ml

Lane 1 : Human placenta tissue lysate - total protein (**ab29745**)
Lane 2 : NIH 3T3 (Mouse embryonic fibroblast cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat Anti-Mouse IgG H&L (HRP) preadsorbed (**ab97040**) at 1/10000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 47 kDa
Observed band size: 47 kDa

Exposure time: 4 minutes

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