

## Product datasheet

# Anti-Hsp40 antibody [3B9.E6] ab223607

KO VALIDATED

★☆☆☆☆ [1 Abreviews](#) [1 References](#) [3 Images](#)

### Overview

---

<b>Product name</b>	Anti-Hsp40 antibody [3B9.E6]
<b>Description</b>	Mouse monoclonal [3B9.E6] to Hsp40
<b>Host species</b>	Mouse
<b>Specificity</b>	Does not cross-react with HDJ2 or YDJ1.
<b>Tested applications</b>	<b>Suitable for:</b> WB, ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Rat, Human
<b>Immunogen</b>	Recombinant fragment corresponding to Human Hsp40. Database link: <a href="#">P25685</a>
<b>Positive control</b>	ICC/IF: HaCaT cells. WB: A431, A549, Daudi, HCT116, HeLa, HEK293, HepG2, HL-60, HUVEC, Jurkat, MCF7, PC-3 and T98G cell lysate; rat brain lysate.
<b>General notes</b>	<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&amp;As</p>

### Properties

---

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituents: 50% Glycerol (glycerin, glycerine), PBS
<b>Purity</b>	Protein G purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	3B9.E6

Isotype

IgG1

## Applications

### The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab223607 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	★☆☆☆☆ (1)	1/2000. Predicted molecular weight: 38 kDa.
ICC/IF		1/100.

## Target

### Function

Interacts with HSP70 and can stimulate its ATPase activity. Stimulates the association between HSC70 and HIP.

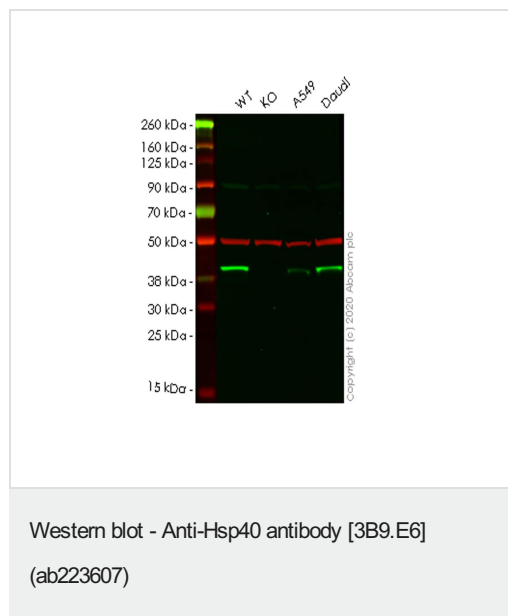
### Sequence similarities

Contains 1 J domain.

### Cellular localization

Cytoplasm. Nucleus. Nucleus > nucleolus. Translocates rapidly from the cytoplasm to the nucleus, and especially to the nucleoli, upon heat shock.

## Images



**All lanes** : Anti-Hsp40 antibody [3B9.E6] (ab223607) at 1/500 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : DNAJB1 knockout HEK293T cell lysate

**Lane 3** : A549 cell lysate

**Lane 4** : Daudi cell lysate

Lysates/proteins at 20 µg per lane.

### Secondary

**All lanes** : Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) at 1/10000 dilution

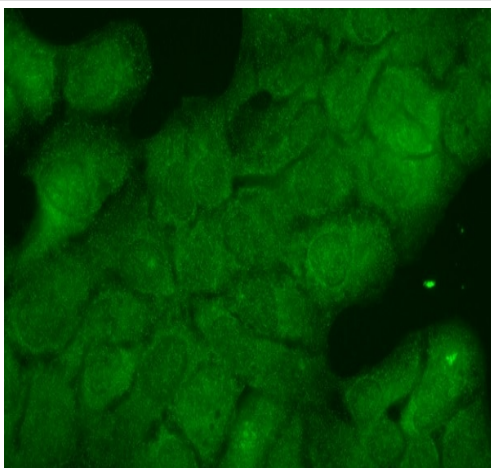
**Predicted band size:** 38 kDa

**Observed band size:** 39 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab223607

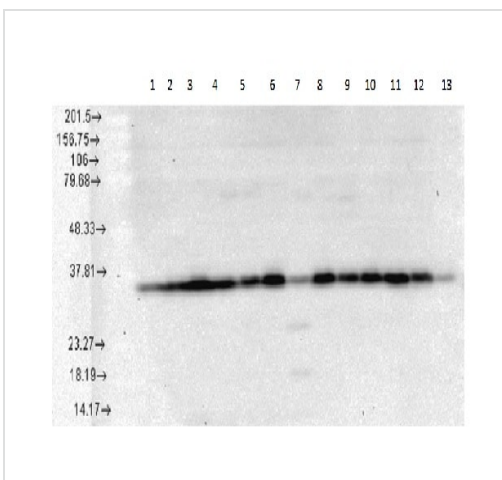
observed at 39 kDa. Red - loading control **ab52901** observed at kDa.

ab223607 Anti-Hsp40 antibody [3B9.E6] was shown to specifically react with Hsp40 in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266344** (knockout cell lysate **ab258400**) was used. Wild-type and Hsp40 knockout samples were subjected to SDS-PAGE. ab223607 and Anti-beta Tubulin [EP1331Y] - Microtubule Marker (**ab52901**) were incubated overnight at 4°C at 1 in 500 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed (**ab216777**) and Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed (**ab216772**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Immunocytochemistry/ Immunofluorescence - Anti-Hsp40 antibody [3B9.E6] (ab223607)

100% methanol fixed HaCat (human keratinocyte cell line) cells stained for Hsp40 (green) using ab223607 (1/100) in ICC/IF. Secondary Antibody: FITC Goat Anti-Mouse 1/50.



Western blot - Anti-Hsp40 antibody [3B9.E6] (ab223607)

**All lanes** : Anti-Hsp40 antibody [3B9.E6] (ab223607) at 1/1000 dilution

- Lane 1** : A431 cell lysate
- Lane 2** : A549 cell lysate
- Lane 3** : HCT116 cell lysate
- Lane 4** : HeLa cell lysate
- Lane 5** : HEK293 cell lysate
- Lane 6** : HepG2 cell lysate
- Lane 7** : HL-60 cell lysate
- Lane 8** : HUVEC cell lysate
- Lane 9** : Jurkat cell lysate
- Lane 10** : MCF7 cell lysate
- Lane 11** : PC-3 cell lysate

**Lane 12** : T98G cell lysate

**Lane 13** : Rat brain lysate

Lysates/proteins at 15 µg per lane.

**Secondary**

**All lanes** : Sheep Anti-Mouse IgG HRP

**Predicted band size:** 38 kDa

**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