


# Anti-Hsc70 antibody ab137806

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

### Overview

<b>Product name</b>	Anti-Hsc70 antibody
<b>Description</b>	Rabbit polyclonal to Hsc70
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> WB, IHC-P
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human <b>Predicted to work with:</b> Rat, Chicken, Cow, Xenopus laevis, Zebrafish 
<b>Immunogen</b>	A recombinant fragment corresponding to a region within amino acids 139-426 of Human Hsc70 (Uniprot ID: P11142).
<b>Positive control</b>	A431; HeLa; Neuro2A, GL261 and C8D30 whole cell lysates; Human NCIN87 xenograft tissue.
<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. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.00 Preservative: 0.01% Thimerosal (merthiolate) Constituents: 1.21% Tris, 0.75% Glycine, 10% Glycerol (glycerin, glycerine)
<b>Purity</b>	Immunogen affinity purified
<b>Clonality</b>	Polyclonal
<b>Isotype</b>	IgG

### Applications

## The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab137806 in the following tested applications.

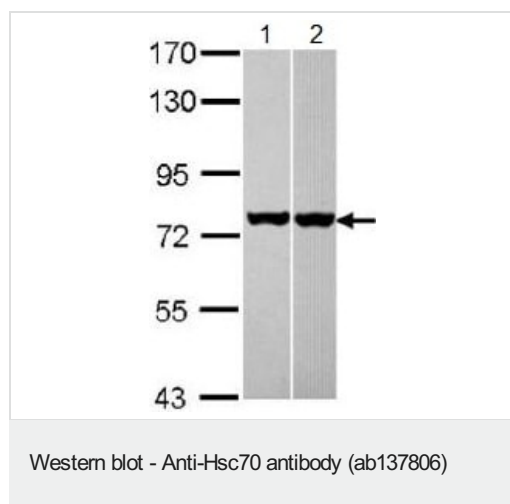
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 70 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

## Target

<b>Function</b>	Acts as a repressor of transcriptional activation. Inhibits the transcriptional coactivator activity of CITED1 on Smad-mediated transcription. Chaperone. Isoform 2 may function as an endogenous inhibitory regulator of HSC70 by competing the co-chaperones.
<b>Tissue specificity</b>	Ubiquitous.
<b>Sequence similarities</b>	Belongs to the heat shock protein 70 family.
<b>Domain</b>	The N-terminal 1-386 residues constitute the ATPase domain, while residues 387-646 form the peptide-binding domain.
<b>Post-translational modifications</b>	Phosphorylated upon DNA damage, probably by ATM or ATR. ISGylated.
<b>Cellular localization</b>	Cytoplasm. Melanosome. Localized in cytoplasmic mRNP granules containing untranslated mRNAs. Translocates rapidly from the cytoplasm to the nuclei, and especially to the nucleoli, upon heat shock. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

## Images



**All lanes :** Anti-Hsc70 antibody (ab137806) at 1/1000 dilution

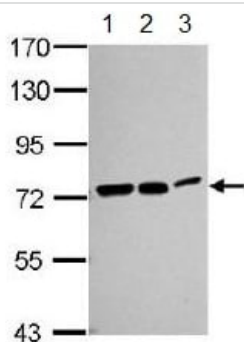
**Lane 1 :** A431 whole cell lysate

**Lane 2 :** HeLa whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 70 kDa

7.5% SDS PAGE



Western blot - Anti-Hsc70 antibody (ab137806)

**All lanes :** Anti-Hsc70 antibody (ab137806) at 1/1000 dilution

**Lane 1 :** Neuro2A whole cell lysate

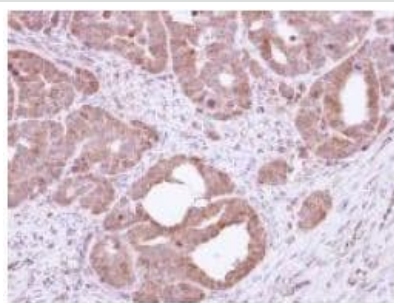
**Lane 2 :** GL261 whole cell lysate

**Lane 3 :** C8D30 whole cell lysate

Lysates/proteins at 30 µg per lane.

**Predicted band size:** 70 kDa

7.5% SDS PAGE



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsc70 antibody (ab137806)

Immunohistochemical analysis of paraffin-embedded Human NCIN87 xenograft tissue labelling HSc70 with ab137806 at 1/100 dilution.

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

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