


Product datasheet

Anti-Hsc70 antibody ab154415

[1 References](#) [4 Images](#)

Overview

Product name	Anti-Hsc70 antibody
Description	Rabbit polyclonal to Hsc70
Host species	Rabbit
Tested applications	Suitable for: WB, IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Chicken, Cow, Xenopus laevis, Zebrafish 
Immunogen	Recombinant protein fragment, corresponding to a region within amino acids 470-635 of Human Hsc70 (Uniprot ID: P11142).
Positive control	Recombinant human Hsc70 protein (ab78431) can be used as a positive control in WB. 293T, A431, H1299, HepG2, Molt-4 and Raji cell lysates; Mouse brain whole cell lysate; HeLa cells; Human U87 xenograft tissue.
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 or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab154415 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		1/1000 - 1/10000. 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. Antigen retrieval also possible using Tris-EDTA buffer (pH8.0).
ICC/IF		1/100 - 1/1000.

Target

Function

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.

Tissue specificity

Ubiquitous.

Sequence similarities

Belongs to the heat shock protein 70 family.

Domain

The N-terminal 1-386 residues constitute the ATPase domain, while residues 387-646 form the peptide-binding domain.

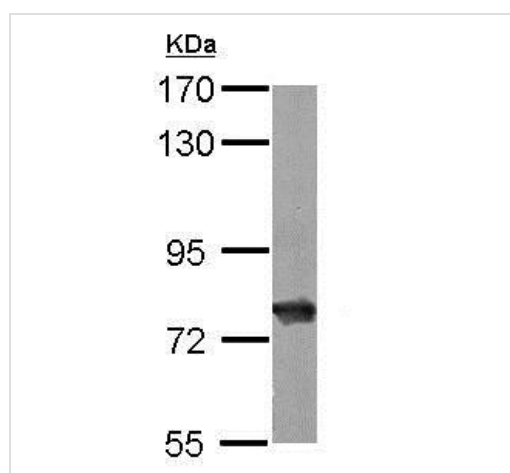
Post-translational modifications

Phosphorylated upon DNA damage, probably by ATM or ATR.
ISGylated.

Cellular localization

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

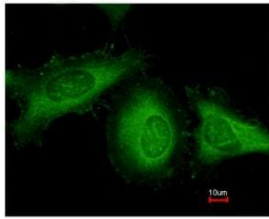


Anti-Hsc70 antibody (ab154415) at 1/5000 dilution + Mouse brain whole cell lysate at 50 µg

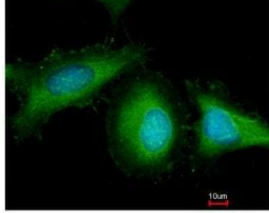
Predicted band size: 70 kDa

7.5% SDS PAGE

Western blot - Anti-Hsc70 antibody (ab154415)

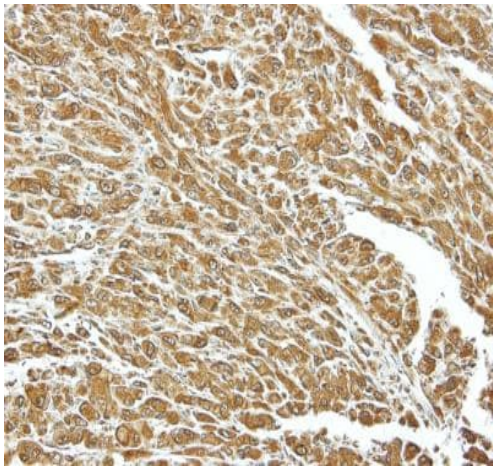


Costained with Hoechst 33342



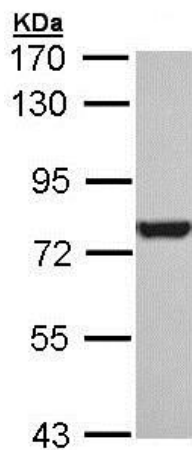
Immunocytochemistry/ Immunofluorescence - Anti-Hsc70 antibody (ab154415)

Immunofluorescence analysis of methanol-fixed HeLa cells, labeling Hsc70 using ab154415 at 1/200 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsc70 antibody (ab154415)

Immunohistochemical analysis of paraffin-embedded Human U87 xenograft tissue, labeling Hsc70 using ab154415 at 1/100 dilution.



Western blot - Anti-Hsc70 antibody (ab154415)

Anti-Hsc70 antibody (ab154415) at 1/10000 dilution + H1299 whole cell lysate at 30 µg

Predicted band size: 70 kDa

7.5% SDS PAGE

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