


Product datasheet

Anti-Hsc70 antibody ab112549

1 Image

Overview

Product name	Anti-Hsc70 antibody
Description	Rabbit polyclonal to Hsc70
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human, Recombinant fragment Predicted to work with: Mouse, Rat, Horse, Chicken, Cow, Chinese hamster, Orangutan 
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 600 to the C-terminus of Human Hsc70. Read Abcam's proprietary immunogen policy
Positive control	This antibody gave a positive signal in Recombinant Hsc70 protein as well as Human Breast and Human Kidney tissue lysates and the following whole cell lysates: MCF7; MDA MB 231; HEK293.

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 Note: Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab112549** in the following tested applications.

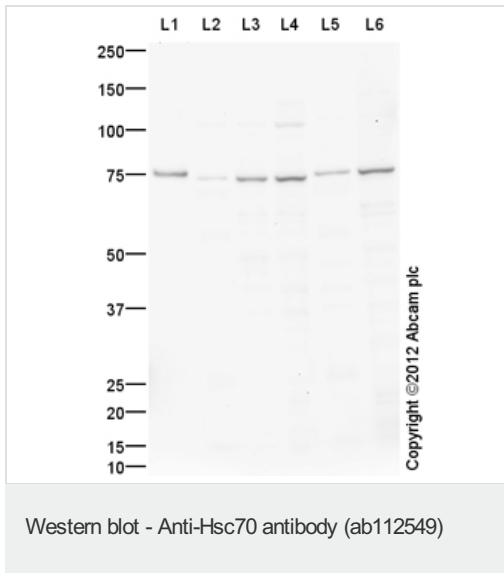
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 75 kDa (predicted molecular weight: 71 kDa).

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



All lanes : Anti-Hsc70 antibody (ab112549)
at 1 µg/ml

Lane 1 : Recombinant Protein:Hsc70 (Active)

Lane 2 : Human breast tissue lysate - total protein ([ab30090](#))

Lane 3 : MCF7 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lane 4 : MDA-MB-231 (Human breast adenocarcinoma cell line) Whole Cell Lysate

Lane 5 : Human kidney tissue lysate - total protein ([ab30203](#))

Lane 6 : HEK293 (Human embryonic kidney cell line) Whole Cell Lysate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 71 kDa

Observed band size: 75 kDa

Exposure time: 8 minutes

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