


Product datasheet

Anti-Hsp60 antibody ab137706

2 References 4 Images

Overview

Product name	Anti-Hsp60 antibody
Description	Rabbit polyclonal to Hsp60
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, Monkey, Zebrafish, Xenopus tropicalis 
Immunogen	Recombinant fragment corresponding to a region within amino acids 205-483 of the Human Hsp60 protein (P10809).
Positive control	WB: 293T, H1299, HeLaS3, HepG2, Molt-4, Raji, and mouse brain whole cell lysates. IF: A431 cells. IHC-P: NCI-N87 xenograft.
General notes	<p>Reproducibility is key to advancing scientific discovery and accelerating scientists' next breakthrough.</p> <p>Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.</p> <p>We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.</p> <p>In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.</p> <p>We are also updating the applications & species that this product has been “predicted to work with,” however this information is not covered by our Abpromise guarantee.</p> <p>Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.</p> <p>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, as well as customer reviews and Q&As.</p>

Properties

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 78% PBS, 1% BSA, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our [Abpromise guarantee](#) covers the use of **ab137706** in the following tested applications.

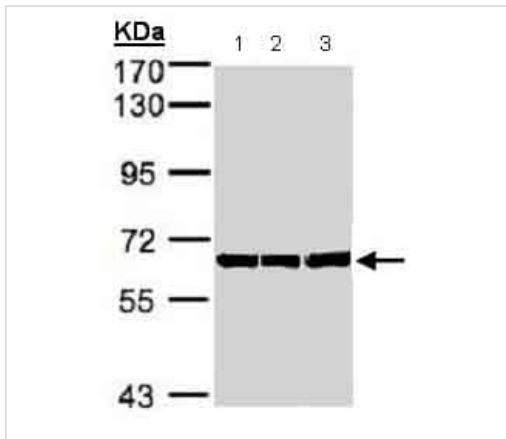
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/5000 - 1/20000. Predicted molecular weight: 61 kDa.
IHC-P		1/100 - 1/1000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF		1/100 - 1/1000.

Target

Function	Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix.
Involvement in disease	Defects in HSPD1 are a cause of spastic paraplegia autosomal dominant type 13 (SPG13) [MIM:605280]. Spastic paraplegia is a degenerative spinal cord disorder characterized by a slow, gradual, progressive weakness and spasticity of the lower limbs. Defects in HSPD1 are the cause of leukodystrophy hypomyelinating type 4 (HLD4) [MIM:612233]; also called mitochondrial HSP60 chaperonopathy or MitCHAP-60 disease. HLD4 is a severe autosomal recessive hypomyelinating leukodystrophy. Clinically characterized by infantile-onset rotary nystagmus, progressive spastic paraplegia, neurologic regression, motor impairment, profound mental retardation. Death usually occurs within the first two decades of life.
Sequence similarities	Belongs to the chaperonin (HSP60) family.
Cellular localization	Mitochondrion matrix.

Images



Western blot - Anti-Hsp60 antibody (ab137706)

All lanes : Anti-Hsp60 antibody (ab137706) at 1/10000 dilution

Lane 1 : H1299 whole cell lysate

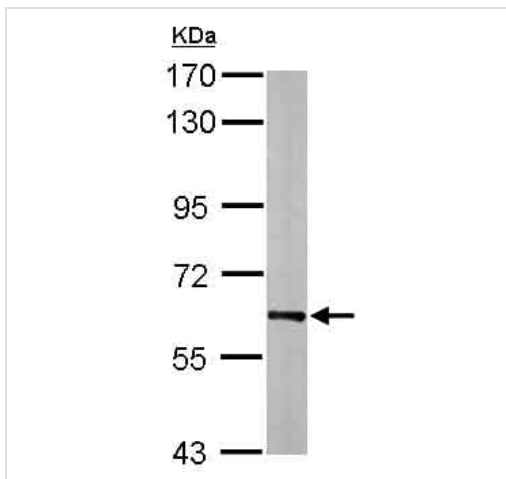
Lane 2 : HeLa S3 whole cell lysate

Lane 3 : MOLT4 whole cell lysate

Lysates/proteins at 30 µg per lane.

Predicted band size: 61 kDa

7.5% SDS PAGE.

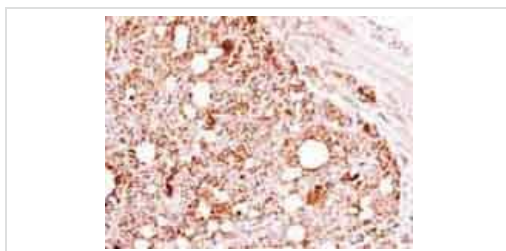


Western blot - Anti-Hsp60 antibody (ab137706)

Anti-Hsp60 antibody (ab137706) at 1/20000 dilution + Mouse brain whole cell lysate at 30 µg

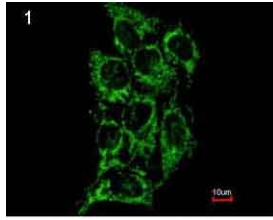
Predicted band size: 61 kDa

7.5% SDS PAGE

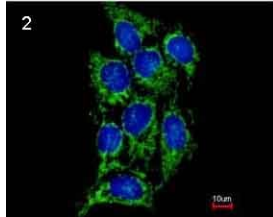


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody (ab137706)

Immunohistochemistry analysis of paraffin-embedded NCI-N87 xenograft tissue labelling Hsp60 with ab137706 at 1/500.



Costained with Hoechst 33342



Immunofluorescence analysis of methanol-fixed A431 cells labelling Hsp60 with ab137706 at 1/200 (panel 1) and co-stained with Hoechst 33342 (panel 2).

Immunocytochemistry/ Immunofluorescence - Anti-Hsp60 antibody (ab137706)

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