

# Anti-Hsp60 antibody [LK-2] ab59458

★★★★★ [1 Abreviews](#) [6 References](#) [5 Images](#)

### Overview

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<b>Product name</b>	Anti-Hsp60 antibody [LK-2]
<b>Description</b>	Mouse monoclonal [LK-2] to Hsp60
<b>Host species</b>	Mouse
<b>Specificity</b>	Detects ~60kDa.
<b>Tested applications</b>	<b>Suitable for:</b> IHC-P, WB
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Human
<b>Immunogen</b>	Human Hsp60 produced through recombinant DNA methods in <i>E.coli</i>
<b>Positive control</b>	HeLa cell 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

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<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
<b>Storage buffer</b>	Preservative: 0.09% Sodium azide Constituents: PBS, 50% Glycerol (glycerin, glycerine)
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	LK-2
<b>Isotype</b>	IgG1

### Applications

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**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab59458 in the following tested applications.

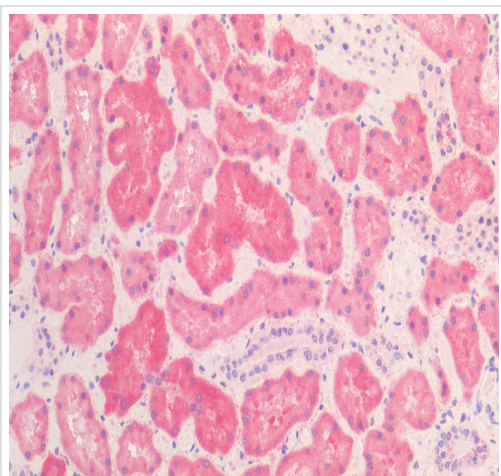
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100.
WB	★★★★★ (1)	1/40000. Predicted molecular weight: 60 kDa.

## Target

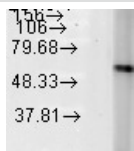
<b>Function</b>	Implicated in mitochondrial protein import and macromolecular assembly. May facilitate the correct folding of imported proteins. May also prevent misfolding and promote the refolding and proper assembly of unfolded polypeptides generated under stress conditions in the mitochondrial matrix.
<b>Involvement in disease</b>	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.
<b>Sequence similarities</b>	Belongs to the chaperonin (HSP60) family.
<b>Cellular localization</b>	Mitochondrion matrix.

## Images



Immunohistochemistry analysis of Paraffin Embedded Human kidney tissue using Mouse Anti-HSP60 Antibody, Clone LK2 (SMC-111) at 1/100 dilution.

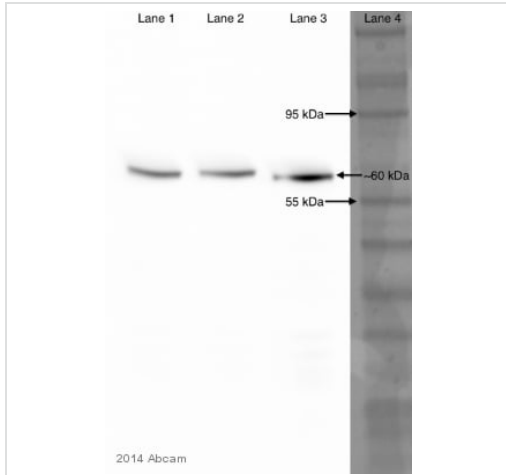
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [LK-2] (ab59458)



Western blot - Anti-Hsp60 antibody [LK-2] (ab59458)

Anti-Hsp60 antibody [LK-2] (ab59458) at 1/1000 dilution + HeLa cell lysate

**Predicted band size:** 60 kDa



Western blot - Anti-Hsp60 antibody [LK-2] (ab59458)

This image is courtesy of an anonymous Abreview

**Lanes 1-3 :** Anti-Hsp60 antibody [LK-2] (ab59458) at 1/4000 dilution

**Lanes 1-3 :** *Saccharomyces cerevisiae* whole cell lysate at 6900000 cells

**Lane 4 :** Ladder

**Secondary**

**Lanes 1-2 :** HRP-conjugated goat anti-mouse IgG monoclonal at 1/5000 dilution

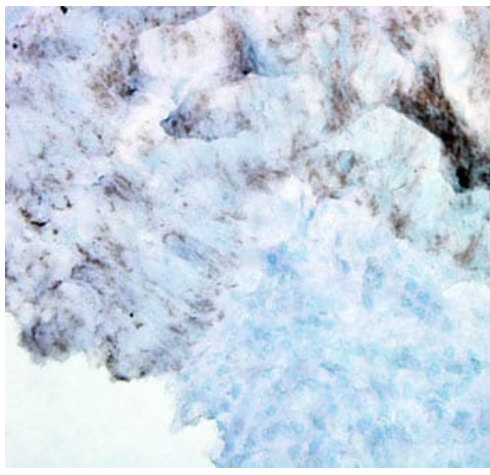
**Lane 3 :** HRP-conjugated goat anti-mouse IgG monoclonal at 1/2000 dilution

Performed under reducing conditions.

**Predicted band size:** 60 kDa

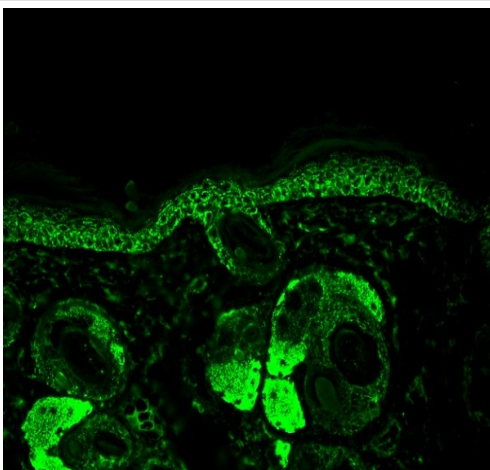
**Observed band size:** 60 kDa

**Exposure time:** 25 seconds



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [LK-2] (ab59458)

**ab59464** at 100,000 dilution staining Hsp60 alpha in human colon tissue section by Immunohistochemistry (Bouin's fixed paraffin embedded tissue sections). Tissue underwent heat mediated antigen retrieval in microwave with 2, 5 minutes incubation intervals in citrate buffer. An antibody amplifier™ system was used for staining. A HRP-conjugated anti mouse secondary was used at 1/10 dilution.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [LK-2] (ab59458)

Paraffin-embedded mouse back skin tissue stained for Hsp60 using ab59458 at 1/100 dilution in immunohistochemical analysis. DAB staining.

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

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