abcam

Product datasheet

Anti-Hsp60 antibody [1D11BD8] - Mitochondrial Marker ab110312

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概述

产品名称	Anti-Hsp60抗体[1D11BD8] - Mitochondrial Marker
描述	小鼠单克隆抗体[1D11BD8] to Hsp60 - Mitochondrial Marker
宿主	Mouse
经测试应用	**适用于:** IHC-P, WB, ICC/IF, Flow Cyt
种属反应性	**与反应:** Human
免疫原	Full length native protein (purified). This information is proprietary to Abcam and/or its suppliers.
阳性对照	Human heart tissue HepG2 Fibroblast cells HeLa cells Human normal colon FFPE tissue.
常规说明	This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact **orders@abcam.com**. 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. 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 Product was previously marketed under the MitoSciences sub-brand.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C. Do Not Freeze.
存储溶液	pH: 7.5 Preservative: 0.02% Sodium azide Constituent: HEPES buffered saline
纯度	Proprietary Purification
纯化说明	The antibody was produced in vitro using hybridomas grown in serum-free medium, and then purified by biochemical fractionation. Purity >95% by SDS-PAGE.

克隆	单克隆
克隆编号	1D11BD8
同种型	IgG1
轻链类型	kappa

应用

The Abpromise guarantee Abpromise™承诺保证使用ab110312于以下的经测试应用

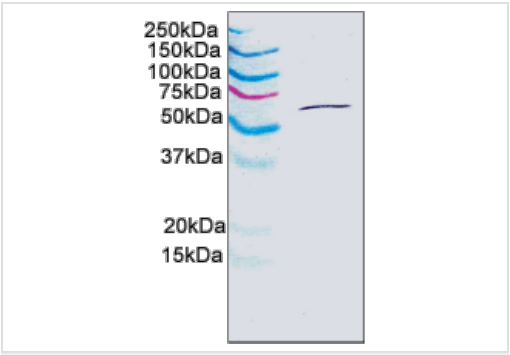
"应用说明"部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
IHC-P	★★★★★ (1)	Use a concentration of 5 µg/ml.
WB	★★★☆☆ (2)	Use a concentration of 5 µg/ml. Predicted molecular weight: 61 kDa.
ICC/IF	★★★★★ (2)	Use a concentration of 1 µg/ml.
Flow Cyt		Use a concentration of 1 µg/ml. **ab170190** - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

靶标

功能	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.
疾病相关	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 occurrs within the first two decades of life.
序列相似性	Belongs to the chaperonin (HSP60) family.
细胞定位	Mitochondrion matrix.

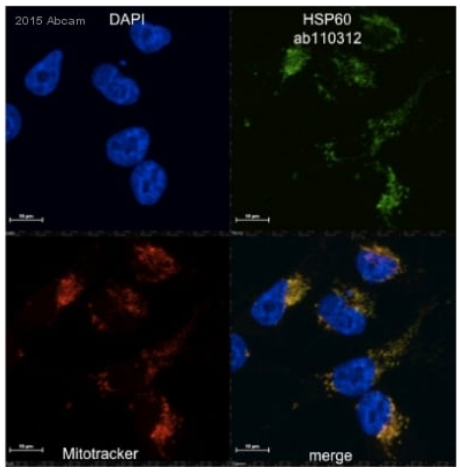
图片



Western blot - Anti-Hsp60 antibody [1D11BD8] - Mitochondrial Marker (ab110312)

Anti-Hsp60 antibody [1D11BD8] - Mitochondrial Marker (ab110312) at 5 µg/ml + HepG2 whole cells at 10 µg

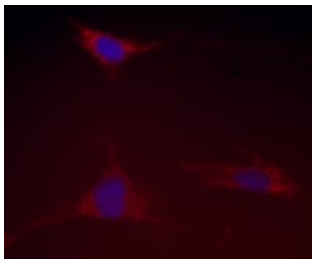
Predicted band size: 61 kDa



Immunocytochemistry/ Immunofluorescence - Anti-Hsp60 antibody [1D11BD8] - Mitochondrial Marker (ab110312)

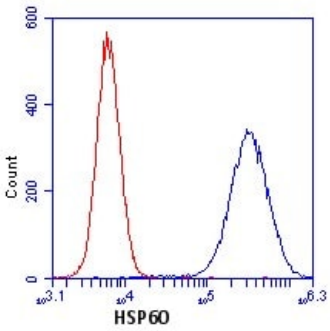
This image is courtesy of an anonymous Abreview

ab110312 staining Hsp60 in MDA MB 231 cells by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde, permeabilized with 1% Triton X-100 and blocked with 10% BSA for 1 hour at 21°C. Samples were incubated with primary antibody (1/100 in BSA + 0.02% Tween20) for 1 hour at 16°C. A DyLight® 550-conjugated goat anti-mouse IgG polyclonal (1/500) was used as the secondary antibody.



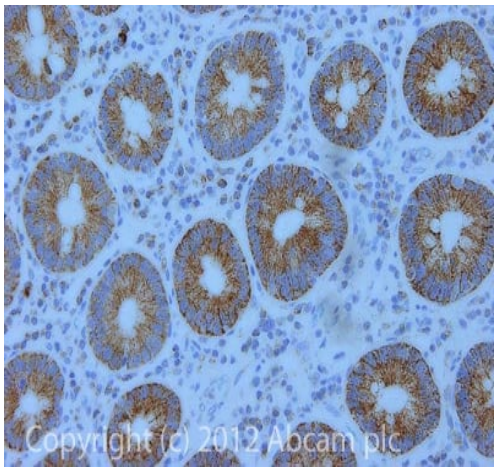
Immunocytochemistry/ Immunofluorescence - Anti-Hsp60 antibody [1D11BD8] - Mitochondrial Marker (ab110312)

Immunocytochemistry image of stained fibroblast cells. The cells were paraformaldehyde fixed (4%, 20 minutes) and Triton X-100 permeabilized (0.1%, 15 minutes). The cells were incubated with the ab110312 antibody (1 µg/mL) for 2 hours at room temperature or over night at 4°C. The secondary antibody was (red) Alexa Fluor® 594 goat anti-mouse IgG (H+L) at a 1/1000 dilution for 1 hour. 10% Goat serum was used as the blocking agent.



Flow Cytometry - Anti-Hsp60 antibody [1D11BD8] - Mitochondrial Marker (ab110312)

HeLa cells were stained with 1 µg/mL ab110312 (blue) or an equal amount of an isotype control antibody (red) and analyzed by flow cytometry.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [1D11BD8] - Mitochondrial Marker (ab110312)

IHC image of Hsp60 staining in Human normal colon formalin fixed paraffin embedded tissue section, performed on a Leica BondTM system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab110312, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times

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