abcam

Product datasheet

Anti-Hsp60 antibody [EPR18245-93] ab190828

重组 RabMAb

4 Abreviews 9 References 12 图像

概述

产品名称	Anti-Hsp60抗体[EPR18245-93]
描述	兔单克隆抗体[EPR18245-93] to Hsp60
宿主	Rabbit
经测试应用	**适用于:** WB, IHC-P, ICC/IF, IP, Flow Cyt (Intra)
种属反应性	**与反应:** Mouse, Rat, Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
阳性对照	WB: Human brain, fetal heart, fetal kidney and fetal spleen lysates; HeLa, NIH/3T3, Neuro-2a and C6 cell lysates; Mouse heart and spleen lysates; Rat brain, heart, spleen and liver lysates. IHC-P: Human, mouse and rat liver tissues. ICC/IF: HeLa and NIH/3T3 cells. Flow Cyt (intra): NIH/3T3 cells. IP: NIH/3T3 cell lysate.
常规说明	Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

性能

形式	Liquid
存放说明	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
存储溶液	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 0.05% BSA, 40% Glycerol (glycerin, glycerine), PBS
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR18245-93
同种型	IgG

应用

The Abpromise guarantee	**Abpromise™承诺保证使用ab190828于以下的经测试应用**

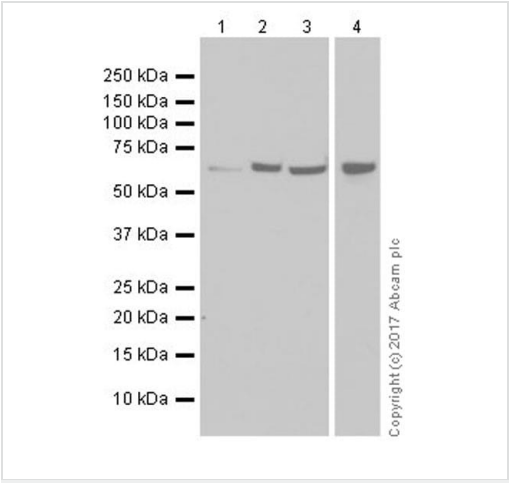
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★☆ (4)	1/1000. Detects a band of approximately 61 kDa (predicted molecular weight: 61 kDa).
IHC-P		1/2000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.
ICC/IF		1/200.
IP		1/30.
Flow Cyt (Intra)		1/500.

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 [EPR18245-93] (ab190828)

All lanes : Anti-Hsp60 antibody [EPR18245-93] (ab190828) at 1/1000 dilution

Lane 1 : Human brain lysate
Lane 2 : Human fetal heart lysate
Lane 3 : Human fetal kidney lysate
Lane 4 : Human fetal spleen lysate

Lysates/proteins at 10 µg per lane.

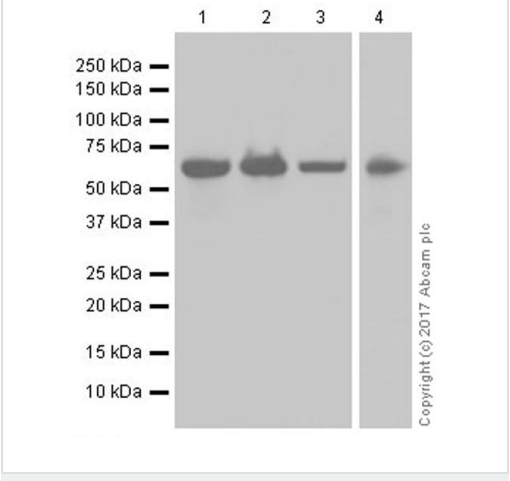
Secondary
All lanes : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/4000 dilution

Developed using the ECL technique.

Predicted band size: 61 kDa
Observed band size: 61 kDa

Exposure time : Lanes 1,2 and 3: 3 minutes; Lane 4:1 minute.

Blocking/Dilution buffer: 5% NFDM/TBST.



Western blot - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

All lanes : Anti-Hsp60 antibody [EPR18245-93] (ab190828) at 1/5000 dilution

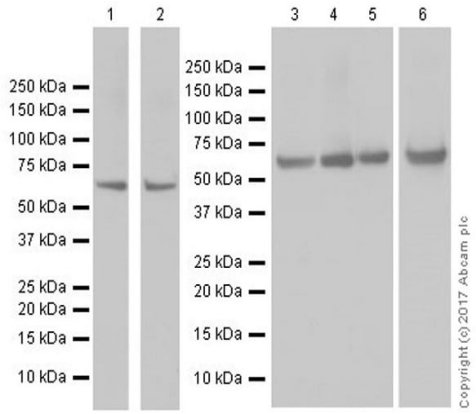
Lane 1 : HeLa (human epithelial cell line from cervix adenocarcinoma) cell lysate
Lane 2 : NIH/3T3 (mouse embyro fibroblast cell line) cell lysate
Lane 3 : Neuro-2a (mouse neuroblastoma cell line) cell lysate
Lane 4 : C6 (rat glial tumor cell line) cell lysate

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 61 kDa
Observed band size: 61 kDa



Western blot - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

Exposure time : Lanes 1,2 and 3: 30 seconds; Lane 4:15 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.

All lanes : Anti-Hsp60 antibody [EPR18245-93] (ab190828) at 1/1000 dilution

Lane 1 : Mouse heart lysate
Lane 2 : Mouse spleen lysate
Lane 3 : Rat brain lysate
Lane 4 : Rat heart lysate
Lane 5 : Rat spleen lysate
Lane 6 : Rat liver lysate

Lysates/proteins at 10 µg per lane.

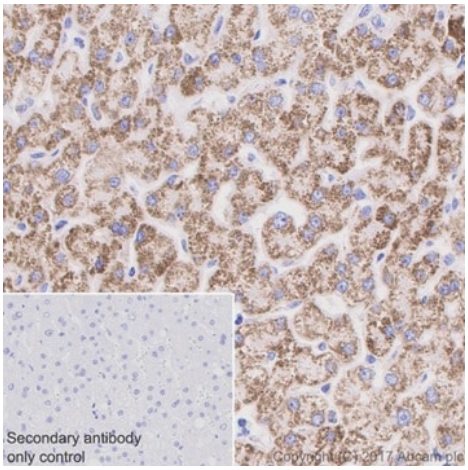
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/100000 dilution

Developed using the ECL technique.

Predicted band size: 61 kDa
Observed band size: 61 kDa

Exposure time : Lane 1: 30 seconds; Lane 2: 1 minute; Lanes 3,4 and 5: 10 seconds; Lane 6: 5 seconds.

Blocking/Dilution buffer: 5% NFDM/TBST.

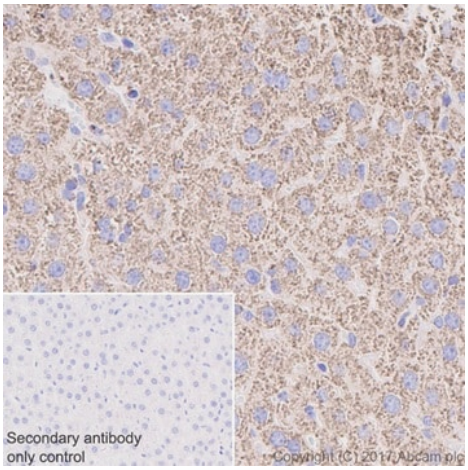


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

Immunohistochemical analysis of paraffin-embedded human liver tissue labeling Hsp60 with ab190828 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Granular and cytoplasmic staining on human liver (PMID: 18548335). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

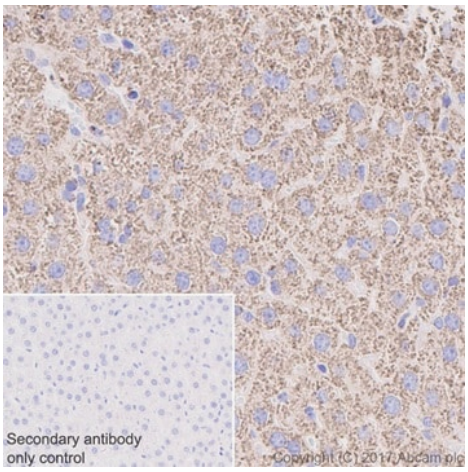


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

Immunohistochemical analysis of paraffin-embedded mouse liver tissue labeling Hsp60 with ab190828 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Granular and cytoplasmic staining on mouse liver (PMID: 18548335). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

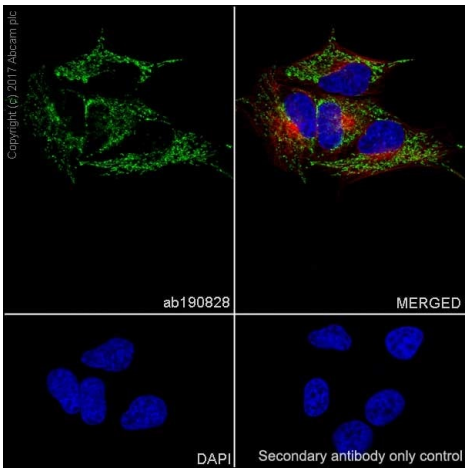


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

Immunohistochemical analysis of paraffin-embedded rat liver tissue labeling Hsp60 with ab190828 at 1/2000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) Ready to use. Granular and cytoplasmic staining on rat liver (PMID: 18548335). Counter stained with hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) Ready to use.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

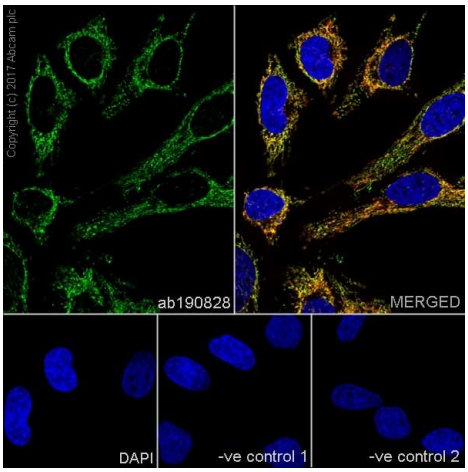


Immunocytochemistry/ Immunofluorescence - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Hsp60 with ab190828 at 1/200 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on HeLa cells.

The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

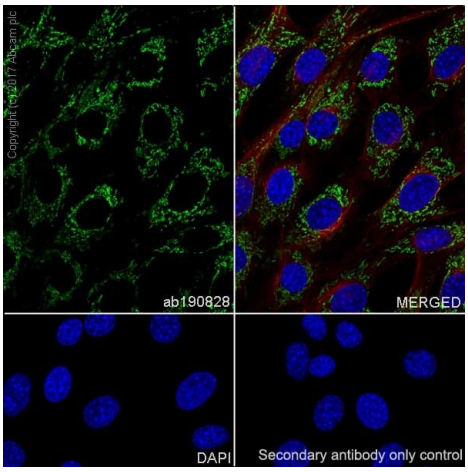
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (human epithelial cell line from cervix adenocarcinoma) cells labeling Hsp60 with ab190828 at 1/200 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on HeLa cells.

The nuclear counter stain is DAPI (blue). COX IV is detected with Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (**ab33985**) at 1/1000 dilution and Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) (red) at 1/1000 dilution.

The negative controls are as follows:-

-ve control 1: ab190828 at 1/200 dilution followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed (**ab150120**) at 1/1000 dilution.

-ve control 2: Anti-COX IV antibody [mAbcam33985] - Mitochondrial Marker (**ab33985**) at 1/1000 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) at 1/1000 dilution.

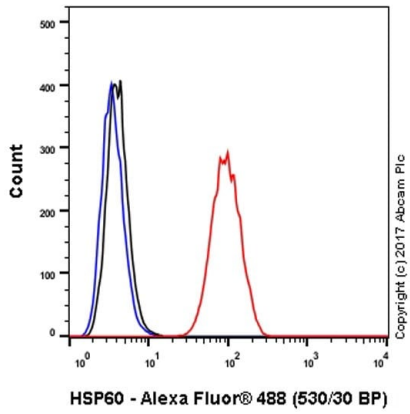


Immunocytochemistry/ Immunofluorescence - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized NIH/3T3 (mouse embyro fibroblast cell line) cells labeling Hsp60 with ab190828 at 1/200 dilution followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution (green). Confocal image showing cytoplasmic staining on NIH/3T3 cells.

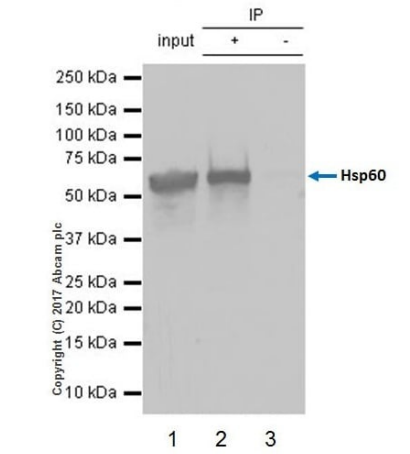
The nuclear counter stain is DAPI (blue). Tubulin is detected with Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) (**ab195889**) (red) at 1/200 dilution.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) (**ab150077**) secondary antibody at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol permeabilized NIH/3T3 (mouse embyro fibroblast cell line) cell line labeling Hsp60 with ab190828 at 1/500 dilution (red) compared with a Rabbit IgG, monoclonal [EPR25A] - Isotype Control (**ab172730**) (black) and an unlabeled control (cells without incubation with primary antibody and secondary antibody) (blue). Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Hsp60 antibody [EPR18245-93] (ab190828)

Hsp60 was immunoprecipitated from 0.35 mg of NIH/3T3 (mouse embyro fibroblast cell line) cell lysate with ab190828 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab190828 at 1/5000 dilution. VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10000 dilution.

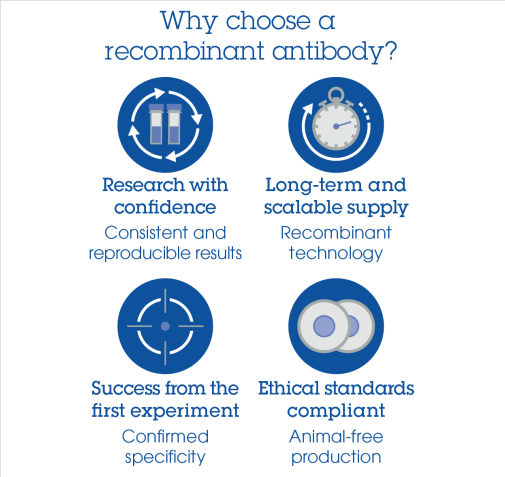
Lane 1: NIH/3T3 cell lysate 10 µg (Input).

Lane 2: ab190828 IP in NIH/3T3 cell lysate .

Lane 3: Rabbit monoclonal IgG (**ab172730**) instead of ab190828 in NIH/3T3 cell lysate .

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 1 second.



Anti-Hsp60 antibody [EPR18245-93] (ab190828)

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

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit **https://www.abcam.cn/abpromise** or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors