


Anti-Hsp47 antibody [EPR4217] ab109117

敲除验证
重组
RabMAb

★★★★★
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概述

产品名称	Anti-Hsp47抗体[EPR4217]
描述	兔单克隆抗体[EPR4217] to Hsp47
宿主	Rabbit
经测试应用	适用于: WB, IHC-P
种属反应性	与反应: Mouse, Human 预测可用于: Rat 
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
阳性对照	HeLa, A431 and NIH/3T3 cell lysates; Human breast tissue; HeLa cells
常规说明	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"> - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production <p>For more information see here.</p> <p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p>

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. Stable for 12 months at -20°C.
存储溶液	<p>pH: 7.20</p> <p>Preservative: 0.01% Sodium azide</p> <p>Constituents: 40% Glycerol, 59% PBS, 0.05% BSA</p>
纯度	Protein A purified
克隆	单克隆
克隆编号	EPR4217
同种型	IgG

应用

The Abpromise guarantee **Abpromise™**承诺保证使用ab109117于以下的经测试应用

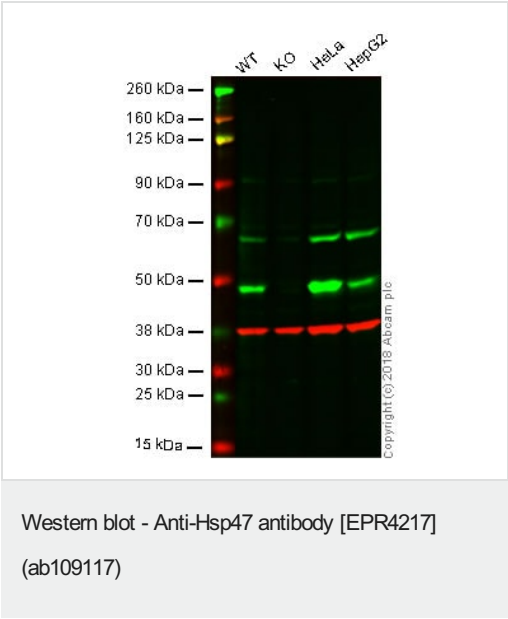
“应用说明”部分 下显示的仅为推荐的起始稀释度;实际最佳的稀释度/浓度应由使用者检定。

应用	Ab评论	说明
WB	★★★★★ (5)	1/1000 - 1/10000. Predicted molecular weight: 46 kDa. For unpurified use at 1/100.
IHC-P	★★★★★ (1)	1/300. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See IHC antigen retrieval protocols . For unpurified use at 1/100 - 1/250.

靶标

功能	Binds specifically to collagen. Could be involved as a chaperone in the biosynthetic pathway of collagen.
疾病相关	Note=Defects in SERPINH1 may cause severe autosomal recessive osteogenesis imperfecta (OI). Osteogenesis imperfecta defines a group of connective tissue disorders characterized by bone fragility and low bone mass.
序列相似性	Belongs to the serpin family.
细胞定位	Endoplasmic reticulum lumen.

图片

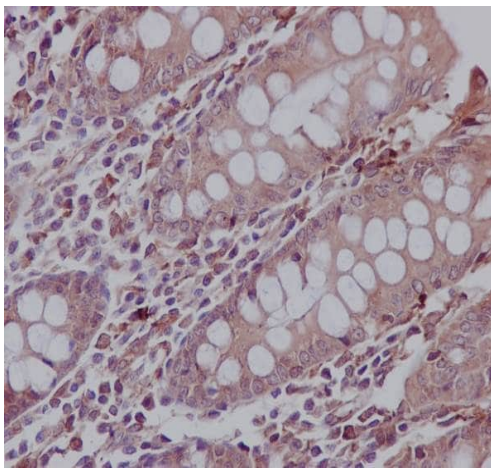


Lane 1: Wild-type HAP1 whole cell lysate (20 µg)
Lane 2: Hsp47 knockout HAP1 whole cell lysate (20 µg)
Lane 3: HeLa whole cell lysate (20 µg)
Lane 4: HepG2 whole cell lysate (20 µg)

Lanes 1 - 4: Merged signal (red and green). Green - ab109117 observed at 46 kDa. Red - loading control, **ab9484**, observed at 37 kDa.

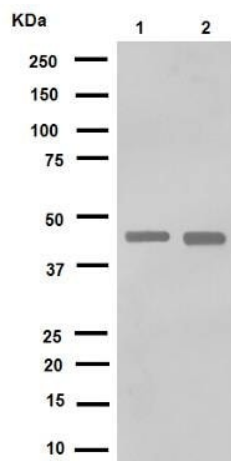
ab109117 was shown to recognize Hsp47 in wild-type HAP1 cells as signal was lost at the expected MW in Hsp47 knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and Hsp47 knockout samples were subjected to SDS-PAGE. ab109117 and **ab9484** (Mouse anti-GAPDH loading control) were incubated overnight at 4°C at 1/1000 dilution and 1/20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preabsorbed

ab216773 and Goat anti-Mouse IgG H&L (IRDye® 680RD)
preabsorbed **ab216776** secondary antibodies at 1/20000 dilution
for 1 hour at room temperature before imaging.



Immunohistochemistry (Formalin/PFA-fixed paraffin-
embedded sections) - Anti-Hsp47 antibody
[EPR4217] (ab109117)

ab109117 staining Hsp47 in Human colon tissue sections by
Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-
embedded sections). Tissue was fixed and paraffin-embedded,
antigen retrieval was by heat mediation in Tris/EDTA buffer pH9.
Samples were incubated with primary antibody (1/300). An
undiluted HRP-conjugated mouse anti-rabbit IgG was used as the
secondary antibody. Tissue counterstained with Hematoxylin.



Western blot - Anti-Hsp47 antibody [EPR4217]
(ab109117)

All lanes : Anti-Hsp47 antibody [EPR4217] (ab109117) at 1/2000
dilution

Lane 1 : A431 Cell Lysate

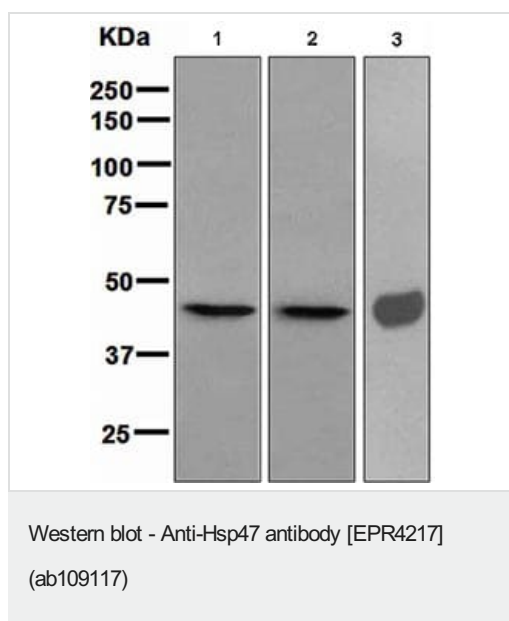
Lane 2 : NIH/3T3 Cell Lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), HRP- conjugated at 1/1000
dilution

Predicted band size: 46 kDa



All lanes : Anti-Hsp47 antibody [EPR4217] (ab109117) at 1/1000 dilution (unpurified)

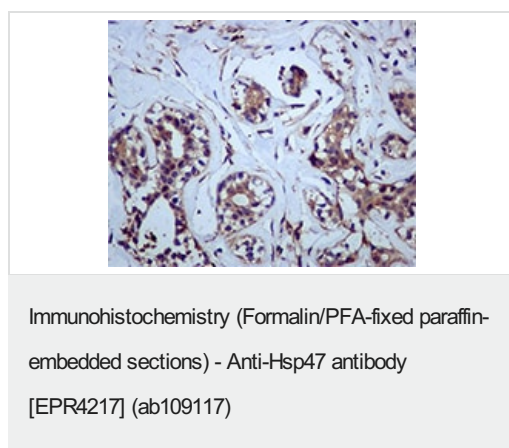
Lane 1 : HeLa cell lysate

Lane 2 : A431 cell lysate

Lane 3 : NIH/3T3 cell lysate

Lysates/proteins at 10 µg per lane.

Predicted band size: 46 kDa



ab109117, unpurified, at 1/100 dilution, staining Hsp47 in Human breast tissue by Immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
Confirmed specificity



Ethical standards compliant
Animal-free production

Anti-Hsp47 antibody [EPR4217] (ab109117)

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

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