

# Anti-Hsp105/HSP110 antibody [EPR4576] ab109624

リコンビナント RabMAb<sup>®</sup>

★★★★☆ **4 Abreviews** **9 References** 画像数 9

### 製品の概要

製品名	Anti-Hsp105/HSP110 antibody [EPR4576]
製品の詳細	Rabbit monoclonal [EPR4576] to Hsp105/HSP110
由来種	Rabbit
アプリケーション	<b>適用あり:</b> WB, IP, IHC-P, ICC/IF
種交差性	<b>交差種:</b> Mouse, Rat, Human
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HepG2, MCF-7, HeLa, C6, PC-12 and NIH/3T3 cell lysates and human cerebellum tissue lysate. ICC/IF: HeLa cells. IHC-P: Human thyroid gland carcinoma and liver carcinoma tissues. IP: NIH/3T3 cell lysate.
特記事項	<p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none"><li>- High batch-to-batch consistency and reproducibility</li><li>- Improved sensitivity and specificity</li><li>- Long-term security of supply</li><li>- Animal-free production</li></ul> <p>For more information <a href="#">see here</a>.</p> <p>Our RabMAb<sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a>.</p>

### 製品の特性

製品の状態	Liquid
保存方法	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.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 59% PBS, 0.05% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR4576

## アプリケーション

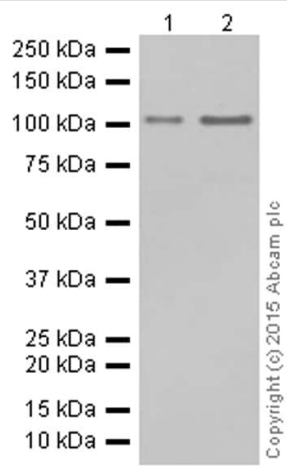
**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab109624の使用に適用されます**  
 アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご確認ください。

アプリケーション	Abreviews	特記事項
WB	★★★★★ (2)	1/1000 - 1/10000. Predicted molecular weight: 97 kDa.
IP	★★★★☆ (1)	1/10 - 1/100.
IHC-P	★★★★☆ (1)	1/50 - 1/500. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols</u></b> .
ICC/IF		1/100 - 1/250.

## ターゲット情報

機能	Prevents the aggregation of denatured proteins in cells under severe stress, on which the ATP levels decrease markedly. Inhibits HSPA8/HSC70 ATPase and chaperone activities.
組織特異性	Highly expressed in testis. Present at lower levels in most brain regions, except cerebellum. Overexpressed in cancer cells.
配列類似性	Belongs to the heat shock protein 70 family.
翻訳後修飾	Phosphorylation on Ser-509 may be important for regulation of the HSPA8/HSC70 chaperone activity.
細胞内局在	Cytoplasm.

## 画像



Western blot - Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624)

**All lanes :** Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624) at 1/5000 dilution (purified)

**Lane 1 :** HeLa whole cell lysate  
**Lane 2 :** HepG2 whole cell lysate

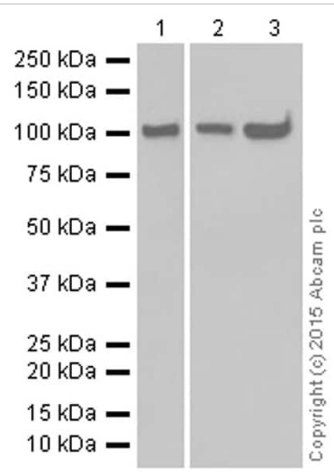
Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG at 1/1000 dilution

**Predicted band size:** 97 kDa  
**Observed band size:** 105 kDa

Blocking and dilution buffer: 5% NFDm/TBST.



Western blot - Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624)

**All lanes :** Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624) at 1/5000 dilution (purified)

**Lane 1 :** C6 whole cell lysate  
**Lane 2 :** PC-12 whole cell lysate  
**Lane 3 :** NIH/3T3 whole cell lysate

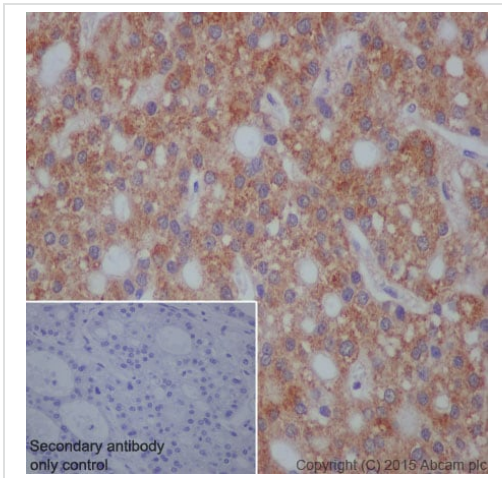
Lysates/proteins at 20 µg per lane.

**Secondary**

**All lanes :** HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG at 1/1000 dilution

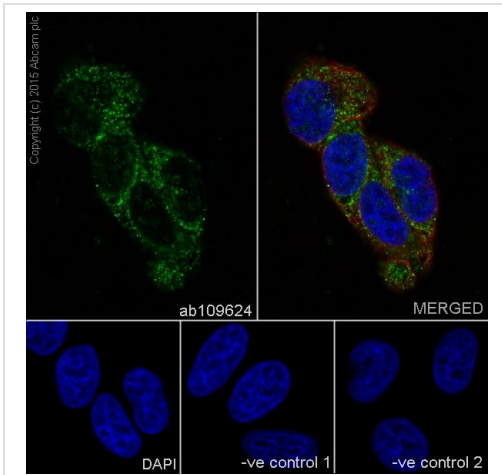
**Predicted band size:** 97 kDa  
**Observed band size:** 105 kDa

Blocking and dilution buffer: 5% NFDm/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human liver carcinoma tissue labelling Hsp105/HSP110 with purified ab109624 at a dilution of 1/500. Heat mediated antigen retrieval was performed using EDTA buffer pH 9. **ab97051**, a HRP-conjugated goat anti-rabbit IgG (H+L) was used as the secondary antibody (1/500). Negative control using PBS instead of primary antibody. Counterstained with hematoxylin.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624)

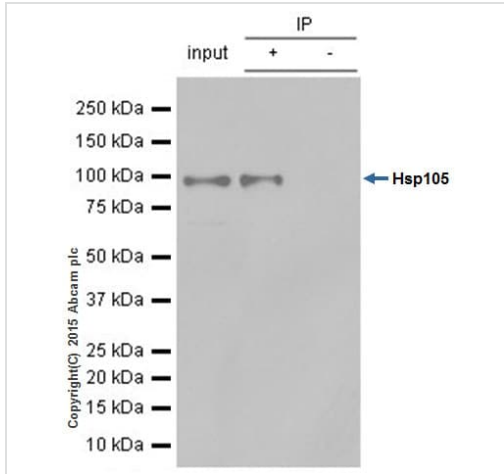


Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Hsp105/HSP110 with purified ab109624 at a dilution of 1/250. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor<sup>®</sup> 488-conjugated goat anti-rabbit IgG (1/1000) was used as the secondary antibody. DAPI (blue) was used as the nuclear counterstain. **ab7291**, a mouse anti-tubulin (1/1000) and **ab150120**, an Alexa Fluor<sup>®</sup> 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/250) and secondary antibody, **ab150120**, an Alexa Fluor<sup>®</sup> 594-conjugated goat anti-mouse IgG (1/1000).

Control 2: **ab7291** (1/1000) and secondary antibody, **ab150077**, an Alexa Fluor<sup>®</sup> 488-conjugated goat anti-rabbit IgG (1/1000).

Immunocytochemistry/ Immunofluorescence - Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624)



Immunoprecipitation - Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624)

ab109624 (purified) at 1/40 immunoprecipitating Hsp105/HSP110 in NIH/3T3 whole cell lysate.

Lane 1 (input): NIH/3T3 whole cell lysate (10µg)

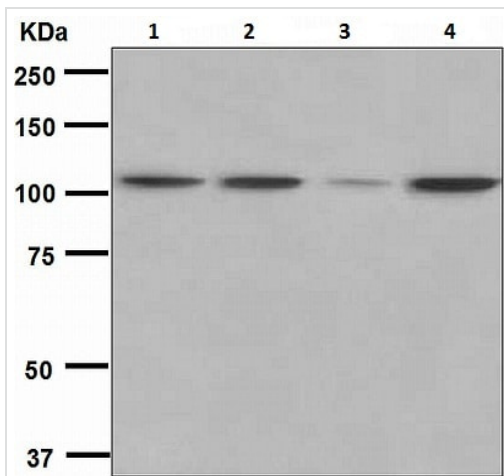
Lane 2 (+): ab109624 + NIH/3T3 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG (**ab172730**) instead of ab109624 in NIH/3T3 whole cell lysate.

For western blotting, VeriBlot for IP Detection Reagent (HRP) (**ab131366**), was used for detection at 1/10,000 dilution.

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Western blot - Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624)

**All lanes** : Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624) at 1/1000 dilution (unpurified)

**Lane 1** : HeLa cell lysate

**Lane 2** : HepG2 cell lysate

**Lane 3** : Human cerebellum lysate

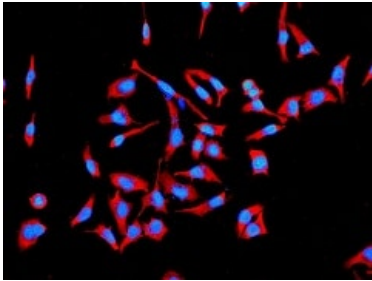
**Lane 4** : MCF-7 cell lysate

Lysates/proteins at 10 µg per lane.

#### Secondary

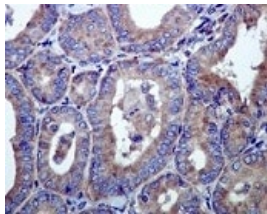
**All lanes** : HRP-conjugated goat anti-rabbit IgG at 1/2000 dilution

**Predicted band size:** 97 kDa



Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Hsp105/HSP110 with unpurified ab109624 at a dilution of 1/100.

Immunocytochemistry/ Immunofluorescence - Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624)



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human thyroid gland carcinoma tissue labelling Hsp105/HSP110 with unpurified ab109624 at a dilution of 1/50.

Perform heat mediated antigen retrieval before commencing with IHC staining protocol.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Hsp105/HSP110 antibody [EPR4576] (ab109624)

### 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-Hsp105/HSP110 antibody [EPR4576] (ab109624)

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