

### Anti-Granulin antibody [EPR15864] ab208777

KO 評価済 リコンビナント RabMAb

3 References 画像数 11

#### 製品の概要

製品名	Anti-Granulin antibody [EPR15864]
製品の詳細	Rabbit monoclonal [EPR15864] to Granulin
由来種	Rabbit
アプリケーション	適用あり: WB, IP, IHC-P
種交差性	交差種: Human
免疫原	Recombinant fragment. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HepG2, HAP1, A431 and 293T whole cell lysate; Human fetal kidney lysate; Human GRN full-length recombinant protein with GST-tag at N-terminal. IHC-P: Human liver, placenta, breast cancer and gastric cancer tissues. IP: HeLa whole 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 long term. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 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	EPR15864

アイソタイプ

IgG

## アプリケーション

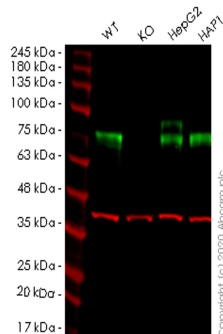
**The Abpromise guarantee** **Abpromise保証は、次のテスト済みアプリケーションにおけるab208777の使用に適用されます**  
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
WB		1/2000. Detects a band of approximately 74 kDa (predicted molecular weight: 64 kDa).
IP		1/70.
IHC-P		1/1000. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

## ターゲット情報

機能	Granulins have possible cytokine-like activity. They may play a role in inflammation, wound repair, and tissue remodeling. Granulin-4 promotes proliferation of the epithelial cell line A431 in culture while granulin-3 acts as an antagonist to granulin-4, inhibiting the growth.
組織特異性	In myelogenous leukemic cell lines of promonocytic, promyelocytic, and proerythroid lineage, in fibroblasts, and very strongly in epithelial cell lines. Present in inflammatory cells and bone marrow. Highest levels in kidney.
関連疾患	Defects in GRN are the cause of ubiquitin-positive frontotemporal dementia (UP-FTD) [MIM:607485]; also known as tau-negative frontotemporal dementia linked to chromosome 17. Frontotemporal dementia (FTD) is the second most common cause of dementia in people under the age of 65 years. It is an autosomal dominant neurodegenerative disease.
配列類似性	Belongs to the granulin family.
翻訳後修飾	Granulins are disulfide bridged.
細胞内局在	Secreted.

## 画像



Western blot - Anti-Granulin antibody [EPR15864] (ab208777)

**All lanes** : Anti-Granulin antibody [EPR15864] (ab208777) at 1/1000 dilution

**Lane 1** : Wild-type HEK293T cell lysate

**Lane 2** : GRN knockout HEK293T cell lysate

**Lane 3** : HepG2 cell lysate

**Lane 4** : HAP1 cell lysate

Lysates/proteins at 20 µg per lane.

#### Secondary

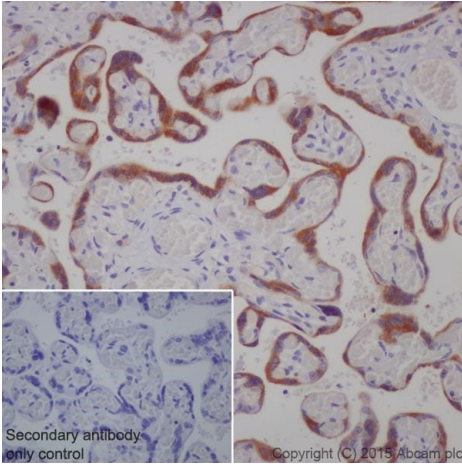
**All lanes** : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/10000 dilution

**Predicted band size:** 64 kDa

**Observed band size:** 74 kDa

**Lanes 1-4:** Merged signal (red and green). Green - ab208777 observed at 74 kDa. Red - loading control **ab8245** observed at 36 kDa.

ab208777 Anti-Granulin antibody [EPR15864] was shown to specifically react with Granulin in wild-type HEK293T cells. Loss of signal was observed when knockout cell line **ab266738** (knockout cell lysate **ab257235**) was used. Wild-type and Granulin knockout samples were subjected to SDS-PAGE. ab208777 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated at room temperature for 2.5 hours at 1 in 1000 dilution and 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.

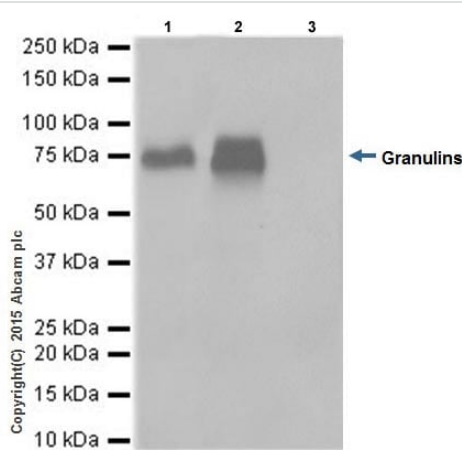


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granulin antibody  
[EPR15864] (ab208777)

Immunohistochemical analysis of paraffin-embedded Human placenta tissue labeling Granulin with ab208777 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasm staining on trophoblastic cells of Human placenta is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is [ab97051](#) at 1/500 dilution.

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



Immunoprecipitation - Anti-Granulin antibody  
[EPR15864] (ab208777)

Granulin was immunoprecipitated from 1mg of HeLa (Human epithelial cell line from cervix adenocarcinoma) whole cell lysate with ab208777 at 1/70 dilution.

Western blot was performed from the immunoprecipitate using ab208777 at 1/1000 dilution.

VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10000 dilution.

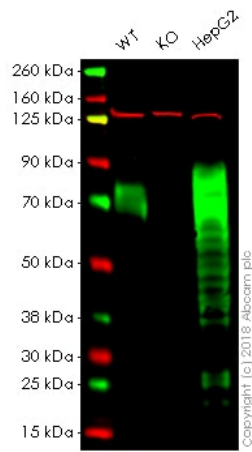
Lane 1: HeLa whole cell lysate, 10µg (Input).

Lane 2: ab208777 IP in HeLa whole cell lysate.

Lane 3: Rabbit IgG, monoclonal -isotype Control ([ab172730](#)) instead of ab208777 in HeLa whole cell lysate.

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

Exposure time: 30 seconds.



Western blot - Anti-Granulin antibody [EPR15864] (ab208777)

**All lanes** : Anti-Granulin antibody [EPR15864] (ab208777) at 1/2000 dilution

**Lane 1** : Wild-type HAP1 whole cell lysate

**Lane 2** : GRN (Granulin) knockout HAP1 whole cell lysate

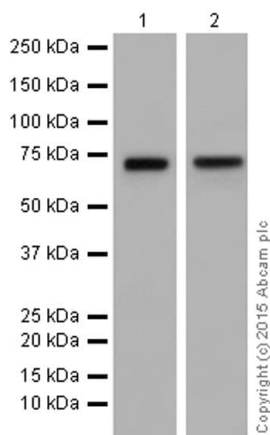
**Lane 3** : HepG2 whole cell lysate

Lysates/proteins at 20 µg per lane.

**Predicted band size:** 64 kDa

**Lanes 1 - 3:** Merged signal (red and green). Green - ab208777 observed at 64 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab208777 was shown to specifically react with Granulin in wild-type HAP1 cells as signal was lost in GRN (Granulin) knockout cells. Wild-type and GRN (Granulin) knockout samples were subjected to SDS-PAGE. Ab208777 and **ab8245** (Mouse anti GAPDH loading control) were incubated overnight at 4°C at 1/2000 dilution and 1/10000 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 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Granulin antibody [EPR15864] (ab208777)

**Lane 1** : Anti-Granulin antibody [EPR15864] (ab208777) at 1/2000 dilution

**Lane 2** : Anti-Granulin antibody [EPR15864] (ab208777) at 1/10000 dilution

**Lane 1** : A431 (Human epidermoid carcinoma cell line) whole cell lysate

**Lane 2** : 293T (Human epithelial cell line from embryonic kidney) whole cell lysate

Lysates/proteins at 10 µg per lane.

### Secondary

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

**Predicted band size:** 64 kDa

**Observed band size:** 74 kDa

**Exposure time:** 1 minute

Blocking/Dilution buffer: 5% NFDm/TBST.

Anti-Granulin antibody [EPR15864] (ab208777) at 1/2000 dilution +  
Human fetal kidney lysate at 10 µg

**Secondary**

Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at  
1/1000 dilution

**Predicted band size:** 64 kDa

**Observed band size:** 74 kDa

**Exposure time:** 3 minutes

Blocking/Dilution buffer: 5% NFDm/TBST.

Anti-Granulin antibody [EPR15864] (ab208777) at 1/1000 dilution +  
Human GRN full-length recombinant protein with GST-tag at N-  
terminal at 0.01 µg

**Secondary**

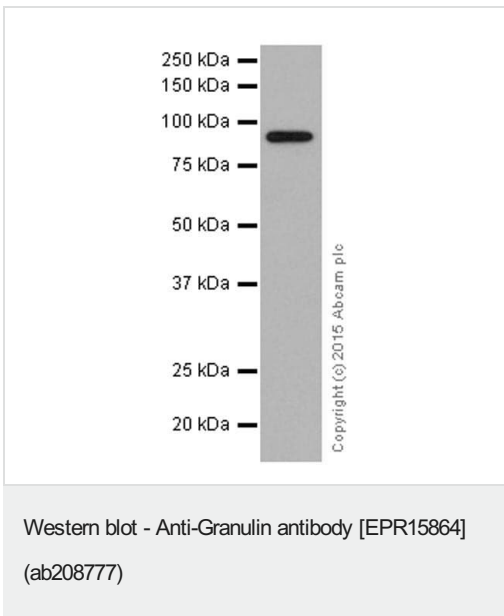
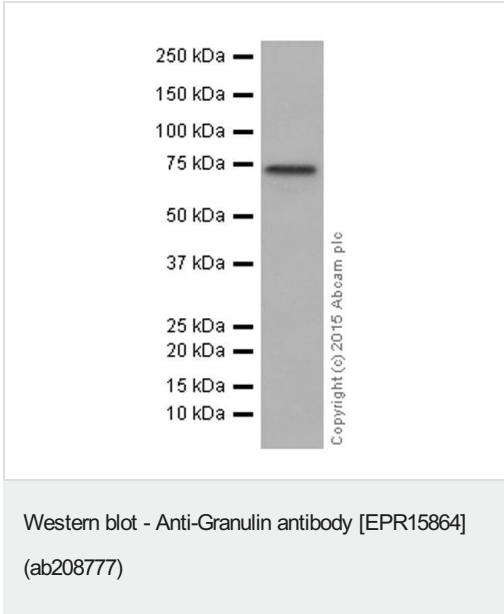
Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/1000  
dilution

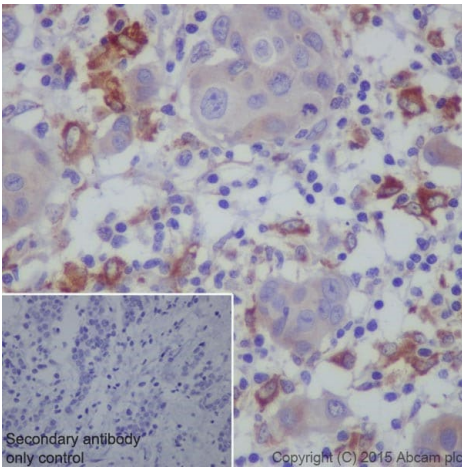
**Predicted band size:** 64 kDa

**Observed band size:** 90 kDa

**Exposure time:** 15 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



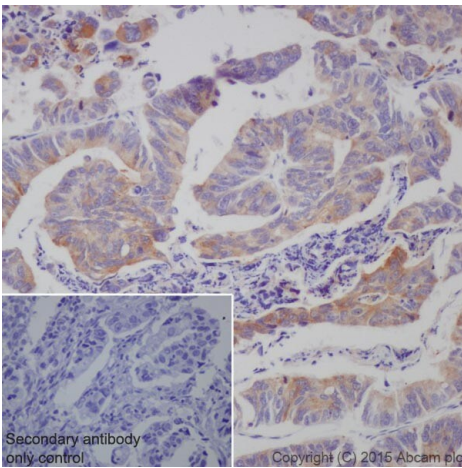


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granulin antibody [EPR15864] (ab208777)

Immunohistochemical analysis of paraffin-embedded Human breast cancer tissue labeling Granulin with ab208777 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasm staining on Human breast cancer is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is [ab97051](#) at 1/500 dilution.

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

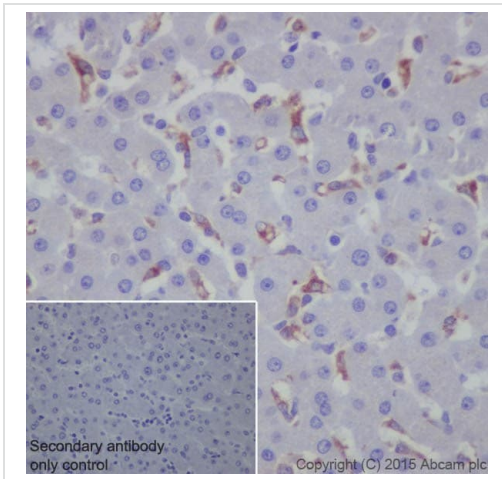


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granulin antibody [EPR15864] (ab208777)

Immunohistochemical analysis of paraffin-embedded Human gastric cancer tissue labeling Granulin with ab208777 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasm staining on Human gastric cancer is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is [ab97051](#) at 1/500 dilution.

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



Immunohistochemical analysis of paraffin-embedded Human liver tissue labeling Granulin with ab208777 at 1/1000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/500 dilution. Cytoplasm staining on Kupffer cells of Human liver is observed. Counter stained with Hematoxylin.

Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is [ab97051](#) at 1/500 dilution.

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-Granulin antibody [EPR15864] (ab208777)

Why choose a recombinant antibody?

 <p><b>Research with confidence</b> Consistent and reproducible results</p>	 <p><b>Long-term and scalable supply</b> Recombinant technology</p>
 <p><b>Success from the first experiment</b> Confirmed specificity</p>	 <p><b>Ethical standards compliant</b> Animal-free production</p>

Anti-Granulin antibody [EPR15864] (ab208777)

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