

Anti-Granulin antibody [EPR18539-59] ab187070

リコンビナント RabMAb[®]

2 References [画像数 6](#)

製品の概要

製品名	Anti-Granulin antibody [EPR18539-59]
製品の詳細	Rabbit monoclonal [EPR18539-59] to Granulin
由来種	Rabbit
アプリケーション	適用あり: Flow Cyt (Intra), WB, IHC-P, ICC/IF, IP
種交差性	交差種: Mouse
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: Mouse spleen tissue lysate; J774A.1 whole cell lysate. IHC-P: Mouse lung tissue. ICC/IF: J774A.1 cells. Flow Cyt (intra): J774A.1 cells. IP: J774A.1 whole cell lysate.
特記事項	<p>ab187070 is also recommended for human and rat species for IHC.</p> <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>

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: 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	EPR18539-59

アプリケーション

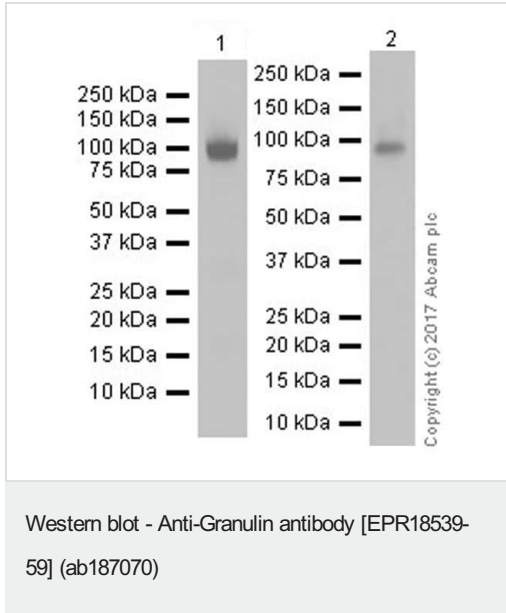
The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab187070の使用に適用されず**
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/1000.
WB		1/1000. Predicted molecular weight: 63 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		1/100.
IP		1/30.

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



Lane 1 : Anti-Granulin antibody [EPR18539-59] (ab187070) at 1/1000 dilution

Lane 2 : Anti-Granulin antibody [EPR18539-59] (ab187070) at 1/5000 dilution

Lane 1 : J774A.1 (mouse reticulum cell sarcoma monocyte/macrophage cell line) whole cell lysate

Lane 2 : Mouse spleen tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

Developed using the ECL technique.

Predicted band size: 63 kDa

Observed band size: 88 kDa

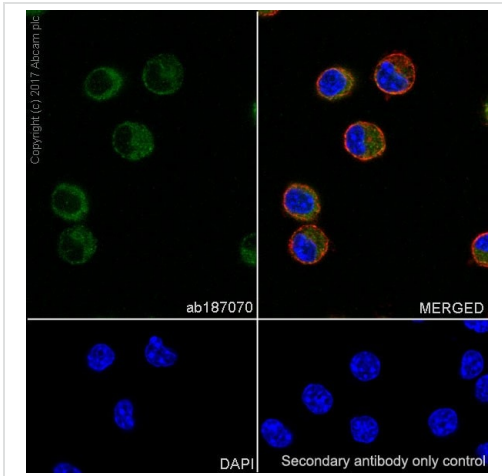
Blocking and dilution buffer: 5% NFDM/TBST.

Exposure times.

Lane 1: 3 seconds.

Lane 2: 10 seconds.

The molecular mass observed is consistent with what has been described in the literature (PMID: 23972823). Granulin (Progranulin, PGRN) is a 593-amino acid, 68.5-kDa cysteine-rich protein that is typically secreted in a highly glycosylated 88-kDa form.

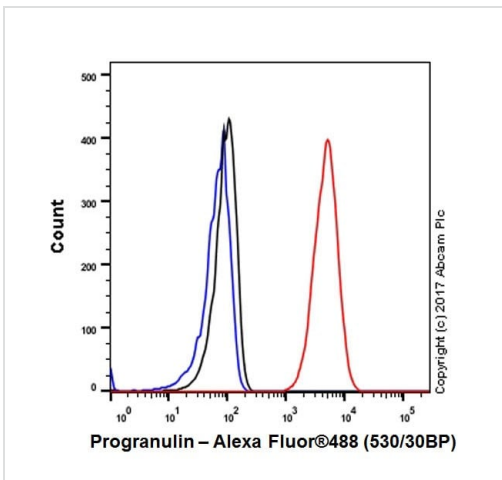


Immunocytochemistry/ Immunofluorescence - Anti-Granulin antibody [EPR18539-59] (ab187070)

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized J774A.1 (mouse reticulum cell sarcoma monocyte macrophage cell line) cells labeling Granulin with ab187070 at 1/100 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 J774A.1 cell line.

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

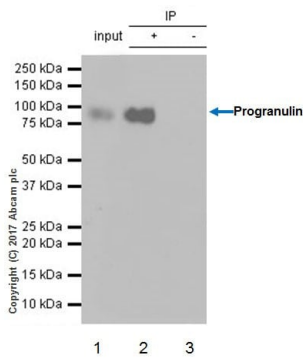
Negative control: Used PBS instead of primary antibody, followed by Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 488) ([ab150077](#)) secondary antibody at 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-Granulin antibody [EPR18539-59] (ab187070)

Intracellular flow cytometric analysis of 4% paraformaldehyde-fixed, 90% methanol-permeabilized J774A.1 (mouse reticulum cell sarcoma monocyte macrophage) cell line labeling Granulin with ab187070 at 1/1000 (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) ([ab150077](#)), at 1/2000 dilution was used as the secondary antibody.



Immunoprecipitation - Anti-Granulin antibody
[EPR18539-59] (ab187070)

Granulin was immunoprecipitated from 0.35 mg of J774A.1 (mouse reticulum cell sarcoma monocyte macrophage cell line) whole cell lysate with ab187070 at 1/30 dilution. Western blot was performed from the immunoprecipitate using ab187070 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)), was used for detection at 1/10,000 dilution.

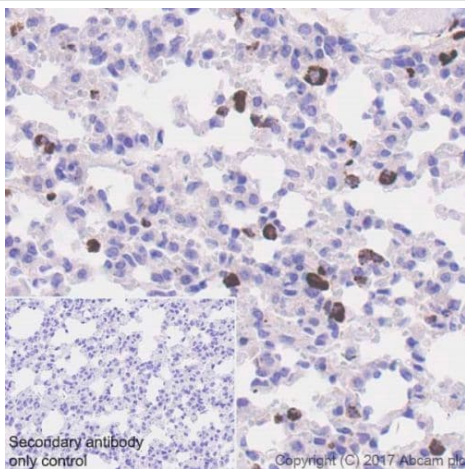
Lane 1: J774A.1 lysate 10 µg (Input).

Lane 2: ab187070 IP in J774A.1 lysate (+).

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab187070 in J744A.1 whole cell lysate (-).

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

Exposure time: 3 minutes.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Granulin antibody
[EPR18539-59] (ab187070)

Immunohistochemical analysis of paraffin-embedded mouse lung tissue labeling Granulin with ab187070 at 1/2000 dilution, followed by a ready to use Goat Anti-Rabbit IgG H&L (HRP). Sporadic cytoplasmic staining in mouse lung (PMID: 23959579) is observed. Counter stained with hematoxylin.

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

Perform heat mediated antigen retrieval using [ab93684](#) (Tris/EDTA buffer, pH 9.0).

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Anti-Granulin antibody [EPR18539-59] (ab187070)

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