

### Anti-Galactosidase alpha antibody [EP5828(2)] ab168341

KO 評価済 リコンビナント RabMAb

★★★★★ [2 Abreviews](#) [8 References](#) [画像数 12](#)

#### 製品の概要

製品名	Anti-Galactosidase alpha antibody [EP5828(2)]
製品の詳細	Rabbit monoclonal [EP5828(2)] to Galactosidase alpha
由来種	Rabbit
アプリケーション	<b>適用あり:</b> Flow Cyt (Intra), IP, WB, IHC-P, ICC/IF
種交差性	<b>交差種:</b> Human
免疫原	Synthetic peptide within Human Galactosidase alpha aa 100-200. The exact sequence is proprietary. Database link: <a href="#">P06280</a>
ポジティブ・コントロール	WB: MCF-7, 293T, A431, HAP1 and HeLa whole cell lysate ( <a href="#">ab150035</a> ). IHC-P: Human urinary bladder carcinoma, kidney and uterus tissue. ICC/IF: HeLa cells IP: MCF-7 cell lysates. Flow Cyt (intra): HeLa cells.
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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</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	Preservative: 0.01% Sodium azide Constituents: 40% Glycerol, 0.05% BSA, 59% PBS
精製度	Protein A purified

ポリ/モノ	モノクローナル
クローン名	EP5828(2)
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ab168341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
Flow Cyt (Intra)		1/90.
IP		1/10 - 1/100.
WB	★★★★★ (1)	1/1000 - 1/10000. Predicted molecular weight: 49 kDa.
IHC-P		1/50 - 1/100. Perform heat mediated antigen retrieval before commencing with IHC staining protocol. See <b><u>IHC antigen retrieval protocols</u></b> .
ICC/IF		1/50 - 1/500.

## ターゲット情報

### 関連疾患

Defects in GLA are the cause of Fabry disease (FD) [MIM:301500]. FD is a rare X-linked sphingolipidosis disease where glycolipid accumulates in many tissues. The disease consists of an inborn error of glycosphingolipid catabolism. FD patients show systemic accumulation of globotriaosylceramide (Gb3) and related glycosphingolipids in the plasma and cellular lysosomes throughout the body. Clinical recognition in males results from characteristic skin lesions (angiokeratomas) over the lower trunk. Patients may show ocular deposits, febrile episodes, and burning pain in the extremities. Death results from renal failure, cardiac or cerebral complications of hypertension or other vascular disease. Heterozygous females may exhibit the disorder in an attenuated form, they are more likely to show corneal opacities.

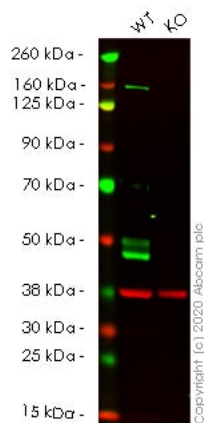
### 配列類似性

Belongs to the glycosyl hydrolase 27 family.

### 細胞内局在

Lysosome.

## 画像



Western blot - Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341)

**All lanes :** Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341) at 1/1000 dilution

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

**Lane 2 :** GLA knockout HeLa cell lysate

Lysates/proteins at 20 µg per lane.

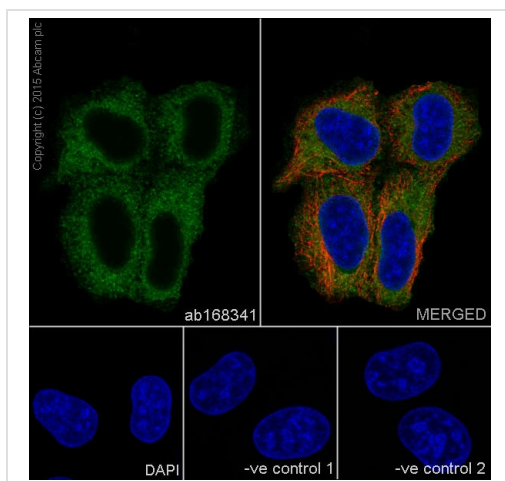
Performed under reducing conditions.

**Predicted band size:** 49 kDa

**Observed band size:** 49 kDa

**Lanes 1-2:** Merged signal (red and green). Green - ab168341 observed at 49 kDa. Red - loading control **ab8245** observed at 37 kDa.

ab168341 Anti-Galactosidase alpha antibody [EP5828(2)] was shown to specifically react with Galactosidase alpha in wild-type HeLa cells. Loss of signal was observed when knockout cell line **ab265563** (knockout cell lysate **ab257449**) was used. Wild-type and Galactosidase alpha knockout samples were subjected to SDS-PAGE. ab168341 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at 1 in 1000 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.

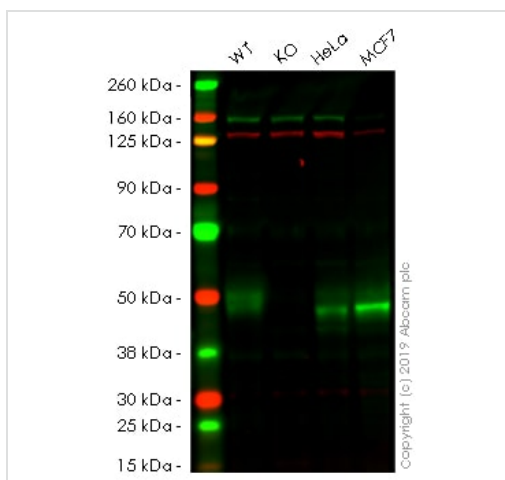


Immunocytochemistry/ Immunofluorescence - Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341)

Immunocytochemistry/Immunofluorescence analysis of HeLa cells labelling Galactosidase with purified ab168341 at 1/500. Cells were fixed with 100% methanol and permeabilized with 0.1% Triton X-100. **ab150077**, an Alexa Fluor® 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® 594-conjugated goat anti-mouse IgG (1/1000) were also used.

Control 1: primary antibody (1/500) and secondary antibody, **ab150120**, an Alexa Fluor® 594-conjugated goat anti-mouse IgG (1/1000).

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



Western blot - Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341)

**All lanes :** Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341) at 1/1000 dilution

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

**Lane 2 :** GLA knockout HAP1 whole cell lysate

**Lane 3 :** Hela whole cell lysate

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

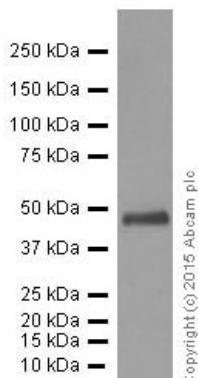
Lysates/proteins at 20 µg per lane.

**Predicted band size:** 49 kDa

**Lanes 1 -4:** Merged signal (red and green). Green - ab168341 observed at 49 kDa. Red - loading control, **ab130007**, observed at 125 kDa.

ab168341 was shown to recognize GLA (Alpha-galactosidase A) in wild-type HAP1 cells as signal was lost at the expected MW in GLA knockout cells. Additional cross-reactive bands were observed in the wild-type and knockout cells. Wild-type and GLA knockout samples were subjected to SDS-PAGE. The membrane was blocked with 3% milk. Ab168341 and **ab130007** (Mouse anti-

Vinculin 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.



Western blot - Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341)

Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341) at 20 µg (purified) + MCF-7 whole cell lysate at 20 µg

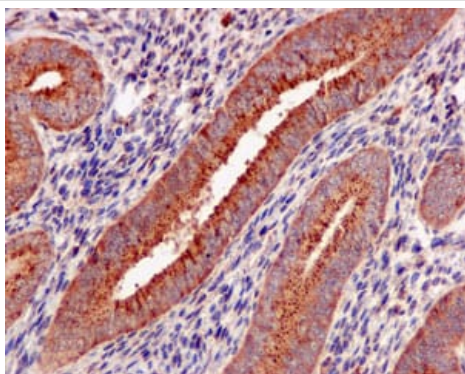
### Secondary

Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/50000 dilution

**Predicted band size:** 49 kDa

**Observed band size:** 46 kDa

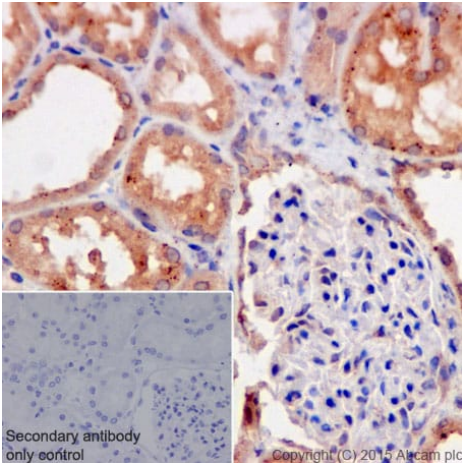
Blocking and dilution buffer: 5% NFDM/TBST.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341)

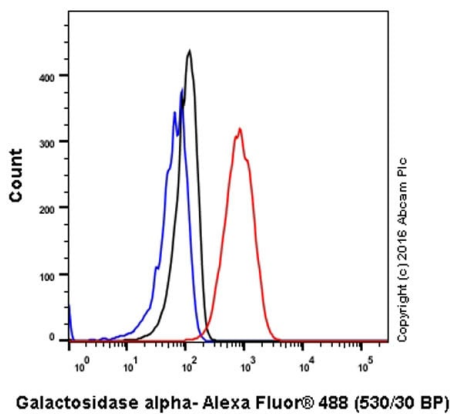
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human uterus tissue labelling Galactosidase alpha with unpurified ab168341 at a dilution of 1/50.

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



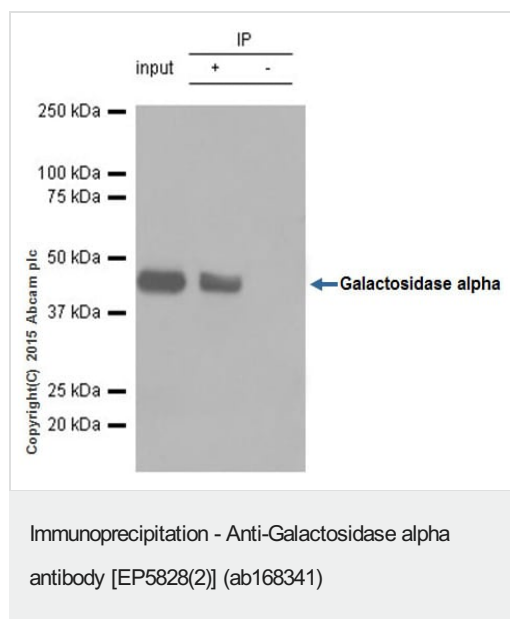
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human kidney tissue labelling Galactosidase alpha with purified ab168341 at 1/50. Heat mediated antigen retrieval was performed using Tris/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.



Flow Cytometry (Intracellular) - Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341)

Intracellular Flow Cytometry analysis of HeLa cells labelling Galactosidase alpha with purified ab168341 at a dilution of 1/90 (red). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.



ab168341 (purified) at 1/60 immunoprecipitating Galactosidase alpha in MCF-7 whole cell lysate.

Lane 1 (input): MCF-7 whole cell lysate (10µg)

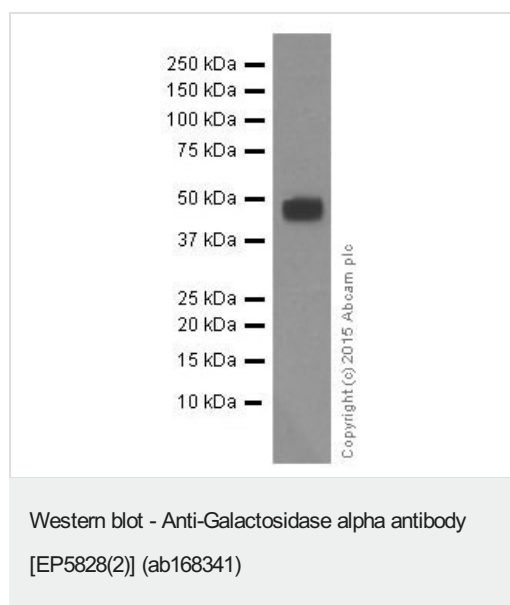
Lane 2 (+): ab168341 + MCF-7 whole cell lysate.

Lane 3 (-): Rabbit monoclonal IgG ([ab172730](#)) instead of ab168341 in MCF-7 whole cell lysate.

For western blotting, a HRP-conjugated anti-rabbit IgG, specific to the non-reduced form of IgG was used as the secondary antibody (1/1500).

Blocking buffer and concentration: 5% NFDM/TBST.

Diluting buffer and concentration: 5% NFDM /TBST.



Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341) at 1/5000 dilution (purified) + HEK293 whole cell lysate at 10 µg

### Secondary

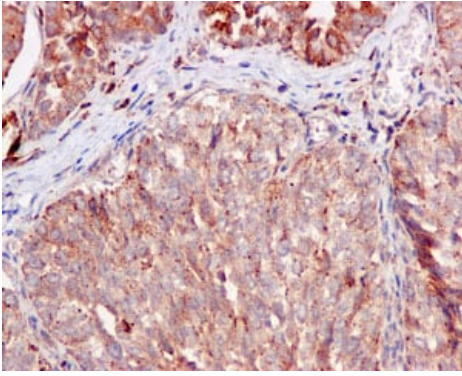
Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/50000 dilution

**Predicted band size:** 49 kDa

**Observed band size:** 46 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

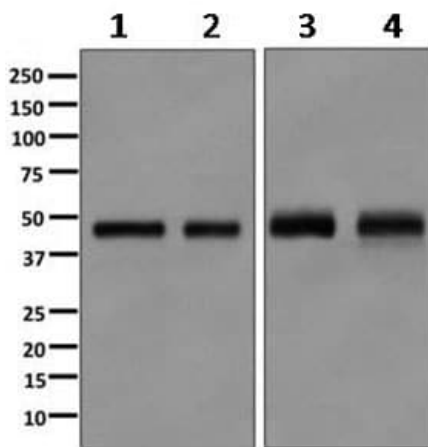




Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341)

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) analysis of human urinary bladder carcinoma tissue labelling Galactosidase alpha with unpurified ab168341 at a dilution of 1/50.

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



Western blot - Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341)

**All lanes :** Anti-Galactosidase alpha antibody [EP5828(2)] (ab168341) at 1/1000 dilution (unpurified)

**Lane 1 :** MCF-7 cell lysates

**Lane 2 :** 293T cell lysates

**Lane 3 :** A431 cell lysates

**Lane 4 :** HeLa cell lysates

Lysates/proteins at 10 µg per lane.

**Predicted band size:** 49 kDa

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-Galactosidase alpha antibody [EP5828(2)] (ab168341)



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