abcam

Product datasheet

Anti-GATA1 antibody ab40847

画像数 5

製品の概要

製品名	Anti-GATA1 antibody
製品の詳細	Goat polyclonal to GATA1
由来種	Goat
アプリケーション	**適用あり:** ICC/IF, Flow Cyt (Intra), WB
種交差性	**交差種:** Mouse, Human **交差が予測される動物種:** Rat, Dog
免疫原	Synthetic peptide corresponding to Human GATA1 aa 65-76 (internal sequence). Sequence: DAEAYRHSPVFQ Database link: **P15976** Run BLAST with Run BLAST with
ポジティブ・コントロール	Flow Cyt (Intra): K562 cells.
特記事項	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
精製度	Immunogen affinity purified
特記事項（精製）	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.

ポリ/モノ	ポリクローナル
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ab40847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。

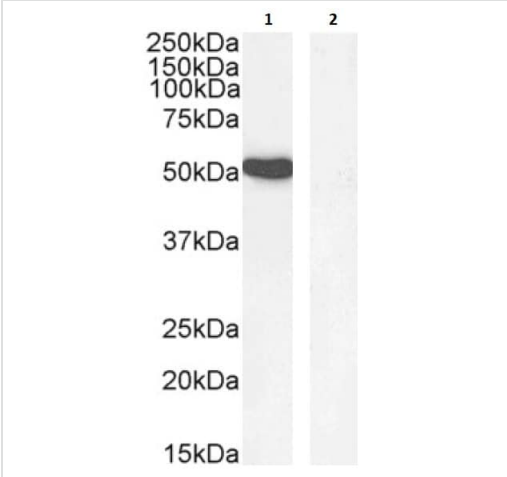
アプリケーション	Abreviews	特記事項
ICC/IF		Use a concentration of 10 µg/ml.
Flow Cyt (Intra)		Use a concentration of 10 µg/ml.
WB		Use a concentration of 0.3 - 1 µg/ml. Predicted molecular weight: 43 kDa. 1 hour primary incubation is recommended for this product.

ターゲット情報

機能	Transcriptional activator which probably serves as a general switch factor for erythroid development. It binds to DNA sites with the consensus sequence [AT]GATA[AG] within regulatory regions of globin genes and of other genes expressed in erythroid cells.
組織特異性	Erythrocytes.
関連疾患	Defects in GATA1 are the cause of X-linked dyserythropoietic anemia and thrombocytopenia (XDAT) [MIM:300367]. XDAT is a disorder characterized by erythrocytes with abnormal size and shape, and paucity of platelets in peripheral blood. The bone marrow contains abundant and abnormally small megakaryocytes. Defects in GATA1 are the cause of X-linked thrombocytopenia with beta-thalassemia (XLTT) [MIM:314050]; also knwon as thrombocytopenia, platelet dysfunction, hemolysis, and imbalanced globin synthesis. XLTT consists of an unusual form of thrombocytopenia with beta-thalassemia. Patients have splenomegaly and petechiae, moderate thrombocytopenia, prolonged bleeding time due to platelet dysfunction, reticulocytosis and unbalanced hemoglobin chain synthesis resembling that of beta-thalassemia minor. Defects in GATA1 are the cause of anemia without thrombocytopenia X-linked (XLAWT) [MIM:300835]. XLAWT is a form of anemia characterized by abnormal morphology of erythrocytes and granulocytes in peripheral blood, bone marrow dysplasia with hypocellularity of erythroid and granulocytic lineages, and normal or increased number of megakaryocytes. Neutropenia of a variable degree is present in affected individuals.
配列類似性	Contains 2 GATA-type zinc fingers.
ドメイン	The two fingers are functionally distinct and cooperate to achieve specific, stable DNA binding. The first finger is necessary only for full specificity and stability of binding, whereas the second one is required for binding.
翻訳後修飾	Highly phosphorylated on serine residues. Phosphorylation on Ser-310 is enhanced on erythroid differentiation. Phosphorylation on Ser-142 promotes sumoylation on Lys-137. Sumoylation on Lys-137 is enhanced by phosphorylation on Ser-142 and by interaction with PIAS4. Sumoylation by SUMO1 has no effect on transcriptional activity.

細胞内局在 Nucleus.

画像



Western blot - Anti-GATA1 antibody (ab40847)

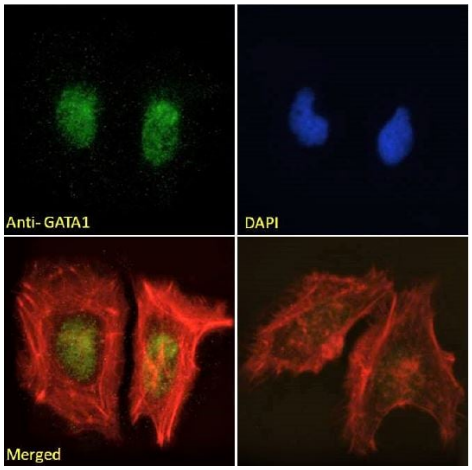
All lanes : Anti-GATA1 antibody (ab40847) at 1 µg/ml

Lane 1 : K562 nuclear cell lysate
Lane 2 : Human Hippocampus lysate

Developed using the ECL technique.

Predicted band size: 43 kDa

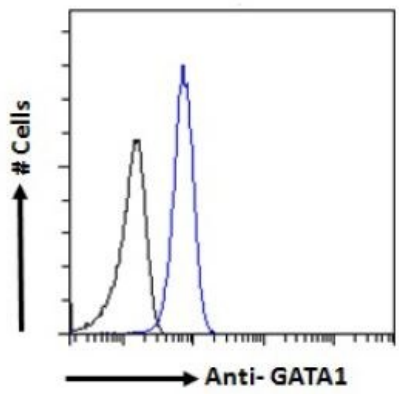
Negative Control: Human Hippocampus Lysate.



Immunocytochemistry/ Immunofluorescence - Anti-GATA1 antibody (ab40847)

Immunocytochemsitry/Immunofluorescence analysis of paraformaldehyde-fixed, 0.15% Triton-permeabilized HeLa cells staining GATA1 with ab40847 at 10µg/ml, followed by Alexa Fluor 488 secondary antibody at 2ug/ml (green). DAPI was used as a nuclear counterstain (blue) and actin filaments were stained with phalloidin (red).

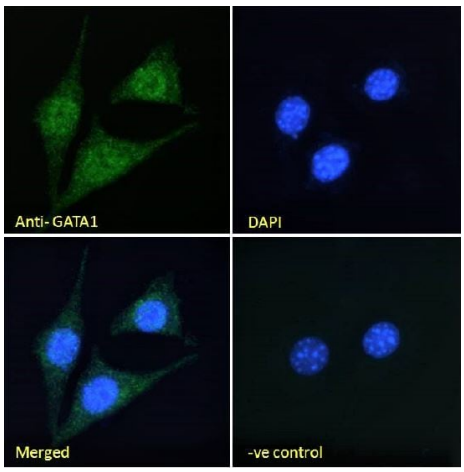
Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).



Flow Cytometry (Intracellular) - Anti-GATA1 antibody (ab40847)

Flow cytometric analysis of paraformaldehyde fixed, 0.15% triton-permeablized K562 cells labelling GATA1 with ab40847 at 10µg/ml, followed by Alexa Fluor 488 secondary antibody (1ug/ml) (blue). Primary incubation carried out for 1hr.

IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-GATA1 antibody (ab40847)

Immunocytochemsitry/Immunofluorescence analysis of paraformaldehyde-fixed, 0.15% Triton-permeabilized NIH3T3 cells staining GATA1 with ab40847 at 10µg/ml, followed by Alexa Fluor 488 secondary antibody at 2ug/ml (green). Primary incubation was carried out for 1 hour. DAPI was used as a nuclear counterstain (blue).

Negative control: Unimmunized goat IgG (10ug/ml) followed by Alexa Fluor 488 secondary antibody (2ug/ml).

Western blot - Anti-GATA1 antibody (ab40847)

Anti-GATA1 antibody (ab40847) at 0.3 µg/ml + Human PBMC lysate (35µg protein in RIPA buffer).

Predicted band size: 43 kDa
Observed band size: 48 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

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