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Product datasheet

Anti-ASS1 antibody ab77590

5 References 画像数 6

製品の概要

製品名	Anti-ASS1 antibody
製品の詳細	Goat polyclonal to ASS1
由来種	Goat
アプリケーション	**適用あり:** ICC/IF, IHC-P, Flow Cyt (Intra), WB
種交差性	**交差種:** Mouse, Rat, Human **交差が予測される動物種:** Dog, Orangutan
免疫原	Synthetic peptide: ENPKNQAPPGLYTKTQD (Human) from the internal region of the protein sequence according to NP_000041.2 ; NP_446464.1. Run BLAST with Run BLAST with
ポジティブ・コントロール	ICC: HeLa cells. WB: A431 and NIH/3T3 cell lysate. Human and rat kidney lysate. Mouse liver lysate. Flow Cyt (intra): A431 cells. IHC-P: Human kidney tissue.
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 or -80°C. Avoid repeated freeze / thaw cycles.
バッファー	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 0.5% BSA, Tris buffered saline
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ab77590の使用に適用されます

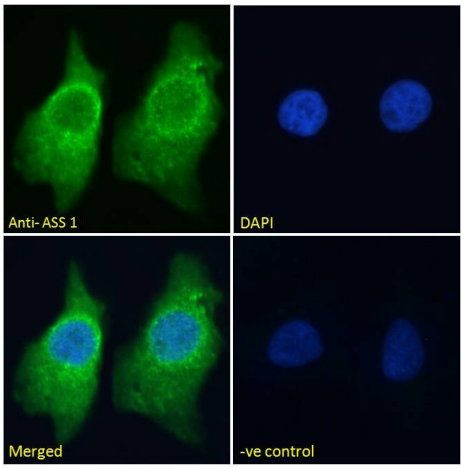
アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		Use at an assay dependent concentration.
IHC-P		Use at an assay dependent concentration.
Flow Cyt (Intra)		Use a concentration of 10 µg/ml.
WB		Use a concentration of 0.01 - 0.03 µg/ml. Detects a band of approximately 45 kDa (predicted molecular weight: 47 kDa). 1 hour primary incubation is recommended for this product.

ターゲット情報

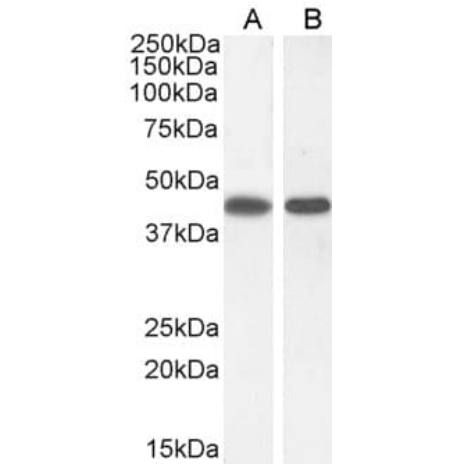
パスウェイ	Amino-acid biosynthesis; L-arginine biosynthesis; L-arginine from L-ornithine and carbamoyl phosphate: step 2/3. Nitrogen metabolism; urea cycle; (N(omega)-L-arginino)succinate from L-aspartate and L-citrulline: step 1/1.
関連疾患	Defects in ASS1 are the cause of citrullinemia type 1 (CTLN1) [MIM:215700]. Citrullinemia belongs to the urea cycle disorders. It is an autosomal recessive disease characterized primarily by elevated serum and urine citrulline levels. Ammonia intoxication is another manifestation. CTLN1 usually manifests in the first few days of life. Affected infants appear normal at birth, but as ammonia builds up in the body they present symptoms such as lethargy, poor feeding, vomiting, seizures and loss of consciousness. Less commonly, a milder CTLN1 form can develop later in childhood or adulthood.
配列類似性	Belongs to the argininosuccinate synthase family. Type 1 subfamily.

画像



Immunocytochemistry/ Immunofluorescence - Anti-ASS1 antibody (ab77590)

Immunofluorescence analysis of paraformaldehyde fixed HeLa cells, permeabilized with 0.15% Triton. Primary incubation with ab77590 for 1hr (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml), showing cytoplasmic staining. The nuclear stain is DAPI (blue). Negative control: Unimmunized goat IgG (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (2 µg/ml).



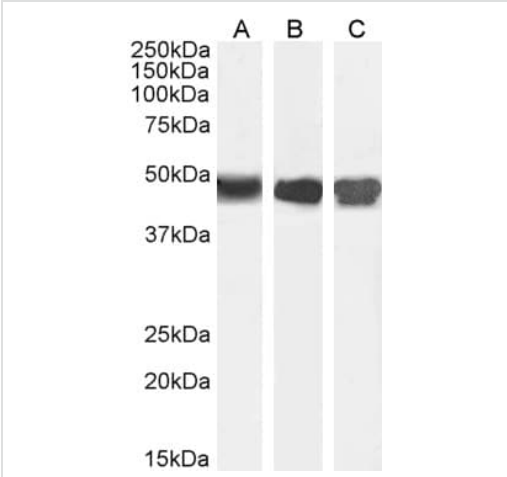
Western blot - Anti-ASS1 antibody (ab77590)

Lane 1 : Anti-ASS1 antibody (ab77590) at 0.3 µg/ml
Lane 2 : Anti-ASS1 antibody (ab77590) at 1 µg/ml

Lane 1 : A431 cell lysate
Lane 2 : NIH/3T3 cell lysate

Lysates/proteins at 35 µg per lane.

Predicted band size: 47 kDa



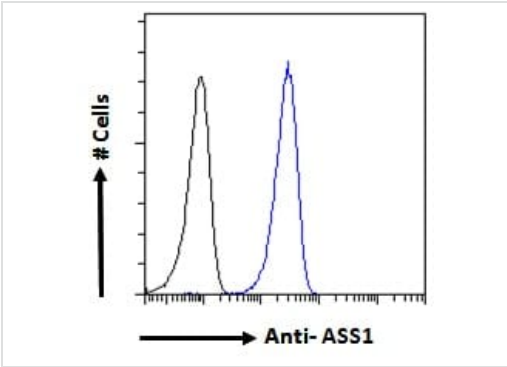
Western blot - Anti-ASS1 antibody (ab77590)

Lanes 1-2 : Anti-ASS1 antibody (ab77590) at 0.01 µg/ml
Lane 3 : Anti-ASS1 antibody (ab77590) at 0.03 µg/ml

Lane 1 : Human Kidney
Lane 2 : Mouse Liver
Lane 3 : Rat Kidney

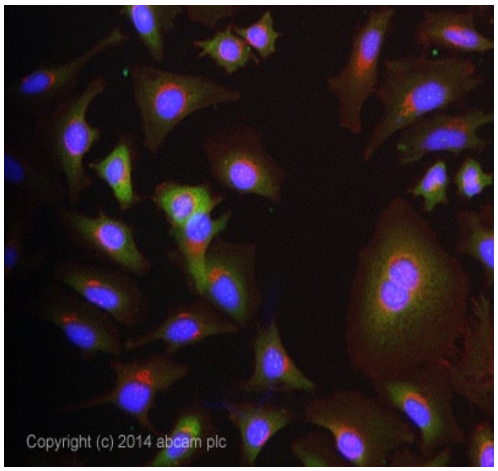
Lysates/proteins at 35 µg per lane.

Predicted band size: 47 kDa



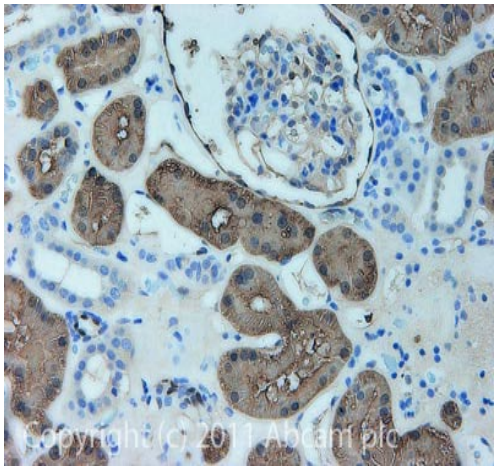
Flow Cytometry (Intracellular) - Anti-ASS1 antibody (ab77590)

Flow cytometric analysis of paraformaldehyde fixed A431 cells (blue line), permeabilized with 0.5% Triton. Primary incubation with ab77590 1hr (10 µg/ml) followed by Alexa Fluor 488 secondary antibody (1 µg/ml). IgG control: Unimmunized goat IgG (black line) followed by Alexa Fluor 488 secondary antibody.



Immunocytochemistry/ Immunofluorescence - Anti-ASS1 antibody (ab77590)

ICC/IF image of ab77590 stained HeLa cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 0.3M glycine in 0.1% PBS-Tween (no animal sera) for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody ab77590 at 10µg/ml overnight at +4°C. The secondary antibody (pseudo-colored green) was Alexa Fluor® 488 donkey anti- goat (**ab150133**) IgG used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (pseudo-colored red) at a 1/200 dilution for 1h at room temperature. DAPI was used to stain the cell nuclei (pseudo-colored blue) at a concentration of 1.43µM for 1hour at room temperature.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ASS1 antibody (ab77590)

IHC image of ab77590 staining in human kidney formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab77590, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.

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