

Product datasheet

Anti-Spermine synthase antibody [1A7] ab119062

KO 評価済

画像数 6

製品の概要

製品名	Anti-Spermine synthase antibody [1A7]
製品の詳細	Mouse monoclonal [1A7] to Spermine synthase
由来種	Mouse
アプリケーション	適用あり: WB, Flow Cyt, ICC/IF
種交差性	交差種: Human
免疫原	Recombinant full length Human Spermine synthase produced in HEK293T cells (NP_004586).
ポジティブ・コントロール	HEK293T cell lysate transfected with pCMV6-ENTRY Spermine synthase cDNA; COS7 cells transiently transfected by pCMV6-ENTRY Spermine synthase; HEK293T cells transfected with pCMV6-ENTRY Spermine synthase overexpress plasmid; HeLa cells and Jurkat cells.
特記事項	Dilute in PBS (pH7.3) before use. Stable for 12 months from date of receipt.

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 repeated freeze / thaw cycles.
バッファー	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: 48% PBS, 50% Glycerol, 1% BSA
精製度	Protein G purified
特記事項(精製)	ab119062 is purified from Mouse ascites fluid by affinity chromatography.
ポリ/モノ	モノクローナル
クローン名	1A7
アイソタイプ	IgG1

アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab119062** in the following tested applications.

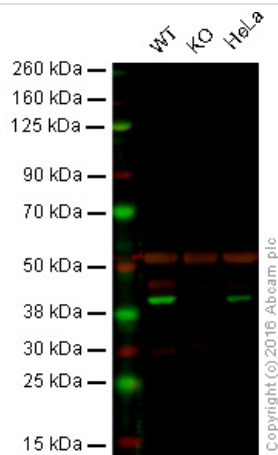
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

アプリケーション	Abreviews	特記事項
WB		1/2000. Predicted molecular weight: 41 kDa.
Flow Cyt		1/100. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.
ICC/IF		1/100.

ターゲット情報

機能	Required for normal viability, growth and fertility.
パスウェイ	Amine and polyamine biosynthesis; spermine biosynthesis; spermine from spermidine: step 1/1.
関連疾患	Defects in SMS are the cause of Snyder-Robinson syndrome (SRS) [MIM:309583]; also known as X-linked mental retardation Snyder-Robinson type. SRS is characterized by moderate intellectual deficit, hypotonia, an unsteady gait, osteoporosis, kyphoscoliosis and facial asymmetry. Transmission is X-linked recessive.
配列類似性	Belongs to the spermidine/spermine synthase family.
ドメイン	Composed of 3 domains: the N-terminal domain has structural similarity to S-adenosylmethionine decarboxylase, the central domain is made up of four beta strands and the C-terminal domain is similar in structure to spermidine synthase. The N- and C-terminal domains are both required for activity.

画像



Western blot - Anti-Spermine synthase antibody [1A7] (ab119062)

Lane 1: Wild-type HAP1 cell lysate (20 µg)

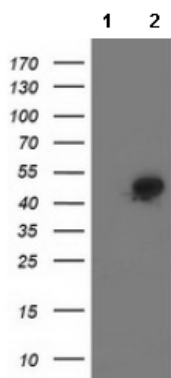
Lane 2: Spermine synthase knockout HAP1 cell lysate (20 µg)

Lane 3: HeLa cell lysate (20 µg)

Lanes 1 - 3: Merged signal (red and green).

Green - ab119062 observed at 40 kDa. Red - loading control, ab18251, observed at 52 kDa.

ab119062 was shown to specifically react with Spermine synthase when Spermine synthase knockout samples were used. Wild-type and Spermine synthase knockout samples were subjected to SDS-PAGE. ab119062 and ab18251 (loading control to alpha tubulin) were diluted 1/2000 and 1/10 000 respectively and incubated overnight at 4°C. Blots were developed with Goat anti-Mouse IgG H&L (IRDye® 800CW) preadsorbed ab216772 and Goat Anti-Rabbit IgG H&L (IRDye® 680RD) preadsorbed ab216777 secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Spermine synthase antibody [1A7] (ab119062)

All lanes : Anti-Spermine synthase antibody [1A7] (ab119062) at 1/2000 dilution

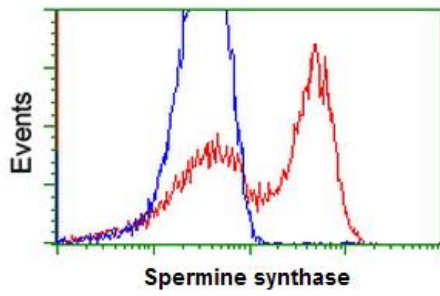
Lane 1 : HEK293T cell lysate transfected with pCMV6-ENTRY control cDNA

Lane 2 : HEK293T cell lysate transfected with pCMV6-ENTRY Spermine synthase cDNA

Lysates/proteins at 5 µg per lane.

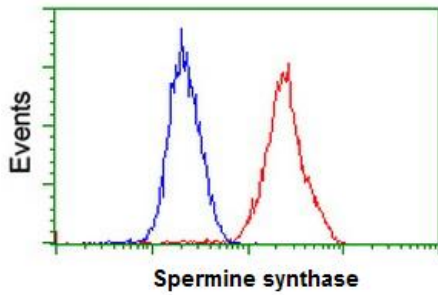
Predicted band size: 41 kDa

HEK293T cell lysates were generated from transient transfection of the cDNA clone (RC200619)



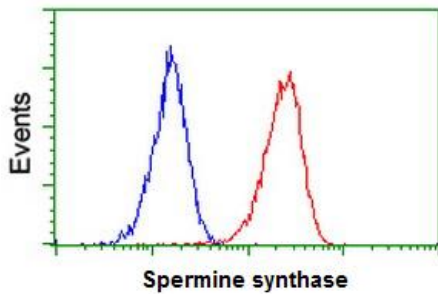
Flow Cytometry - Anti-Spermine synthase antibody
[1A7] (ab119062)

ab119062 at 1/100 dilution staining Spermine synthase in HEK293T cells transfected with either pCMV6-ENTRY Spermine synthase overexpress plasmid (Red) or empty vector control plasmid (Blue) by flow cytometry.



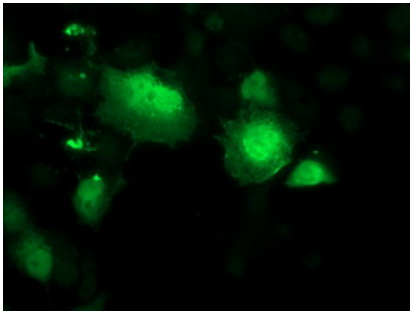
Flow Cytometry - Anti-Spermine synthase antibody
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ab119062 at 1/100 dilution staining Spermine synthase in HeLa cells by Flow cytometry (Red) compared to a nonspecific negative control antibody (Blue).



Flow Cytometry - Anti-Spermine synthase antibody
[1A7] (ab119062)

ab119062 at 1/100 dilution staining Spermine synthase in Jurkat cells by Flow cytometry (Red) compared to a nonspecific negative control antibody (Blue).



ab119062 at 1/100 dilution staining Spermine synthase in COS7 cells transiently transfected with pCMV6-ENTRY5 spermine synthase by Immunofluorescence.

Immunocytochemistry/ Immunofluorescence - Anti-Spermine synthase antibody [1A7] (ab119062)

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