

Anti-SMARCA6 antibody ab3851

★★★★☆ [3 Abreviews](#) [2 References](#) [2 Images](#)

Overview

Product name	Anti-SMARCA6 antibody
Description	Rabbit polyclonal to SMARCA6
Host species	Rabbit
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide (Human) - which represents a portion of human Helicase Lymphoid Specific encoded in part by exons 15 and 16.
Positive control	WB: HeLa whole cell lysate
General notes	<p>DNA helicases (Hel) play a role in a number of processes involving DNA strand separation, including replication, repair, recombination, and transcription. Jarvis et al. (1996) identified a mouse gene encoding a novel putative helicase. They designated the gene LSH, for lymphoid-specific Hel, because Northern blot analysis revealed that it was expressed specifically in mouse early thymocytes. Geiman et al. (1998) determined that the mouse LSH, or HELLS (helicase lymphoid-specific), gene contains at least 18 exons and spans more than 26.6 kb. Using Northern blot analysis, these authors found that human HELLS is expressed in testis and thymus, two tissues that are highly active in DNA recombination. Geiman and Muegge (2000) demonstrated that LSH is not obligatory for normal lymphoid development but is essential for normal proliferation of peripheral T lymphocytes.</p> <p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

Storage buffer	pH: 7 Preservative: 0.1% Sodium azide Constituents: 0.021% PBS, 1.764% Sodium citrate, 1.815% Tris
Purity	Immunogen affinity purified
Primary antibody notes	DNA helicases (Hel) play a role in a number of processes involving DNA strand separation, including replication, repair, recombination, and transcription. Jarvis et al. (1996) identified a mouse gene encoding a novel putative helicase. They designated the gene LSH, for lymphoid-specific Hel, because Northern blot analysis revealed that it was expressed specifically in mouse early thymocytes. Geiman et al. (1998) determined that the mouse LSH, or HELLS (helicase lymphoid-specific), gene contains at least 18 exons and spans more than 26.6 kb. Using Northern blot analysis, these authors found that human HELLS is expressed in testis and thymus, two tissues that are highly active in DNA recombination. Geiman and Muegge (2000) demonstrated that LSH is not obligatory for normal lymphoid development but is essential for normal proliferation of peripheral T lymphocytes.
Clonality	Polyclonal
Isotype	IgG

Applications

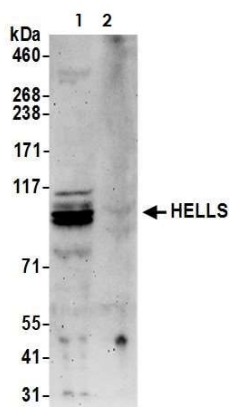
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab3851 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB	★★★★★ (2)	1/2000 - 1/10000. Detects a band of approximately 97 kDa (predicted molecular weight: 97 kDa).

Target

Function	Plays an essential role in normal development and survival. Involved in regulation of the expansion or survival of lymphoid cells. Required for de novo or maintenance DNA methylation. May control silencing of the imprinted CDKN1C gene through DNA methylation. May play a role in formation and organization of heterochromatin, implying a functional role in the regulation of transcription and mitosis.
Tissue specificity	Highly expressed in proliferative tissues such as adult thymus and testis, and expressed at lower levels in uterus, small intestine, colon, and peripheral blood mononuclear cells. Also expressed in neoplastic cell lines including those derived from myeloid and lymphoid leukemias.
Sequence similarities	Belongs to the SNF2/RAD54 helicase family. Contains 1 helicase ATP-binding domain. Contains 1 helicase C-terminal domain.
Cellular localization	Nucleus. Closely associated with pericentric heterochromatin.

Images



Western blot - Anti-SMARCA6 antibody (ab3851)

All lanes : Anti-SMARCA6 antibody (ab3851) at 0.1 µg/ml

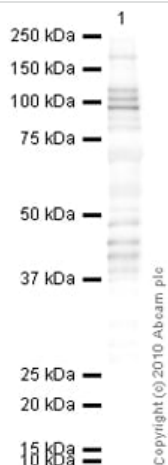
Lane 1 : HeLa whole cell lysate

Lane 2 : K562 whole cell lysate

Lysates/proteins at 50 µg per lane.

Predicted band size: 97 kDa

Exposure time: 3 minutes



Western blot - Anti-SMARCA6 antibody (ab3851)

Anti-SMARCA6 antibody (ab3851) at 1 µg/ml + Human thymus tissue lysate - total protein ([ab30146](#)) at 10 µg

Secondary

Goat Anti-Rabbit IgG H&L (HRP) preadsorbed ([ab97080](#)) at 1/5000 dilution

Developed using the ECL technique.

Performed under reducing conditions.

Predicted band size: 97 kDa

Observed band size: 97 kDa

Additional bands at: 102 kDa, 120 kDa, 47 kDa. We are unsure as to the identity of these extra bands.

Exposure time: 30 seconds

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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