

ARG59841 anti-SMARCE1 antibody

Package: 50 µl
Store at: -20°C

Summary

Product Description	Rabbit Polyclonal antibody recognizes SMARCE1
Tested Reactivity	Hu, Ms, Rat
Tested Application	ICC/IF, IP, WB
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Target Name	SMARCE1
Species	Human
Immunogen	Recombinant fusion protein corresponding to aa. 1-411 of Human SMARCE1 (NP_003070.3).
Conjugation	Un-conjugated
Alternate Names	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily E member 1; BRG1-associated factor 57; BAF57

Application Instructions

Predict Reactivity Note	Mouse, Rat								
Application table	<table><thead><tr><th>Application</th><th>Dilution</th></tr></thead><tbody><tr><td>ICC/IF</td><td>1:50 - 1:200</td></tr><tr><td>IP</td><td>1:20 - 1:50</td></tr><tr><td>WB</td><td>1:500 - 1:2000</td></tr></tbody></table>	Application	Dilution	ICC/IF	1:50 - 1:200	IP	1:20 - 1:50	WB	1:500 - 1:2000
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ICC/IF	1:50 - 1:200								
IP	1:20 - 1:50								
WB	1:500 - 1:2000								
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.								
Positive Control	MCF-7 and U-251MG								
Observed Size	55 kDa								

Properties

Form	Liquid
Purification	Affinity purified.
Buffer	PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.
Preservative	0.02% Sodium azide
Stabilizer	50% Glycerol
Storage instruction	For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw

cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

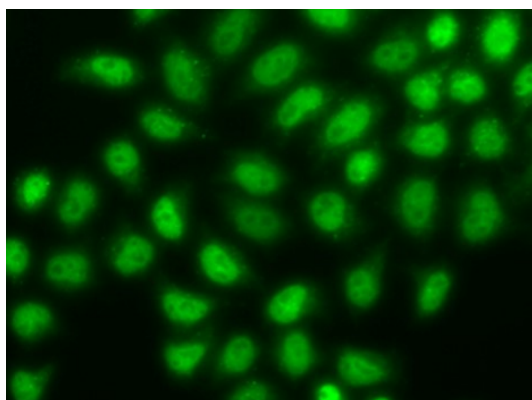
Note

For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol	SMARCE1
Gene Full Name	SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily e, member 1
Background	The protein encoded by this gene is part of the large ATP-dependent chromatin remodeling complex SWI/SNF, which is required for transcriptional activation of genes normally repressed by chromatin. The encoded protein, either alone or when in the SWI/SNF complex, can bind to 4-way junction DNA, which is thought to mimic the topology of DNA as it enters or exits the nucleosome. The protein contains a DNA-binding HMG domain, but disruption of this domain does not abolish the DNA-binding or nucleosome-displacement activities of the SWI/SNF complex. Unlike most of the SWI/SNF complex proteins, this protein has no yeast counterpart. [provided by RefSeq, Jul 2008]
Function	Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a post-mitotic chromatin remodeling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural stem/progenitor cells to post-mitotic neurons requires a switch in subunit composition of the npBAF and nBAF complexes. As neural progenitors exit mitosis and differentiate into neurons, npBAF complexes which contain ACTL6A/BAF53A and PHF10/BAF45A, are exchanged for homologous alternative ACTL6B/BAF53B and DPF1/BAF45B or DPF3/BAF45C subunits in neuron-specific complexes (nBAF). The npBAF complex is essential for the self-renewal/proliferative capacity of the multipotent neural stem cells. The nBAF complex along with CREST plays a role regulating the activity of genes essential for dendrite growth (By similarity). Required for the coactivation of estrogen responsive promoters by Swi/Snf complexes and the SRC/p160 family of histone acetyltransferases (HATs). Also specifically interacts with the CoREST corepressor resulting in repression of neuronal specific gene promoters in non-neuronal cells. [UniProt]
Calculated Mw	47 kDa
PTM	Ubiquitinated by TRIP12, leading to its degradation by the proteasome. Ubiquitination is prevented upon interaction between TRIP12 and SMARCC1. [UniProt]
Cellular Localization	Nucleus. [UniProt]

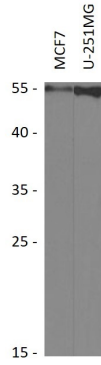
Images



ARG59841 anti-SMARCE1 antibody ICC/IF image

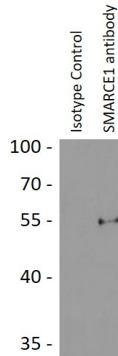
Immunofluorescence: HeLa cells stained with ARG59841 anti-SMARCE1 antibody.

ARG59841 anti-SMARCE1 antibody WB image



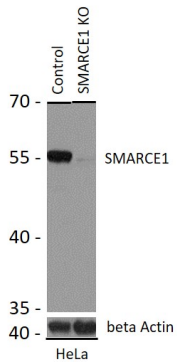
Western blot: 25 μ g of MCF7 and U-251MG cell lysates stained with ARG59841 anti-SMARCE1 antibody at 1:1000 dilution.

ARG59841 anti-SMARCE1 antibody IP image



Immunoprecipitation: 150 μ g extracts of Jurkat cells immunoprecipitated and stained with ARG59841 anti-SMARCE1 antibody at 1:1000 dilution.

ARG59841 anti-SMARCE1 antibody WB image



Western blot: 25 μ g of extracts from normal (control) and SMARCE1 knockout (KO) HeLa cells, using ARG59841 anti-SMARCE1 antibody at 1:1000 dilution.