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Datasheet for ABIN6972747

anti-SMARCC2 antibody (C-Term)

2 Images

Overview

Quantity:	100 µL
Target:	SMARCC2
Binding Specificity:	C-Term
Reactivity:	Human, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunocytochemistry (ICC)

Product Details

Immunogen:	This antibody was raised against a peptide within the C-terminal region of mouse SMARCC2 / BAF170.
Isotype:	IgG
Characteristics:	SMARCC2 / BAF170 (SWI/SNF Related, Matrix Associated, Actin Dependent Regulator Of Chromatin, Subfamily C, Member 2) is involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Can stimulate the ATPase activity of the catalytic subunit of these complexes. May be required for CoREST dependent repression of neuronal specific gene promoters in non-neuronal cells. Also involved in vitamin D-coupled transcription regulation via its association with the WINAC complex, a chromatin-remodeling complex recruited by vitamin D receptor (VDR), which is required for the ligand-bound VDR-mediated transrepression of the CYP27B1 gene. 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

Product Details

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). SMARCC2 / BAF170 antibody (pAb) was raised in a Rabbit host. It has been validated for use in Immunocytochemistry, Immunofluorescence and Western blot, it has been shown to react with Human and Mouse samples.

Purification: Affinity Purified

Target Details

Target: SMARCC2

Alternative Name: SMARCC2 / BAF170 ([SMARCC2 Products](#))

Molecular Weight: 170 kDa

NCBI Accession: [NP_001107569](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Buffer: Purified IgG in PBS with 30 % glycerol and 0.035 % sodium azide.

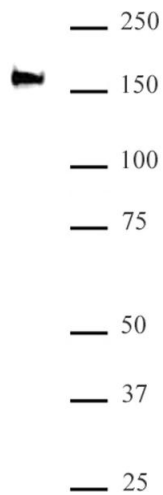
Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

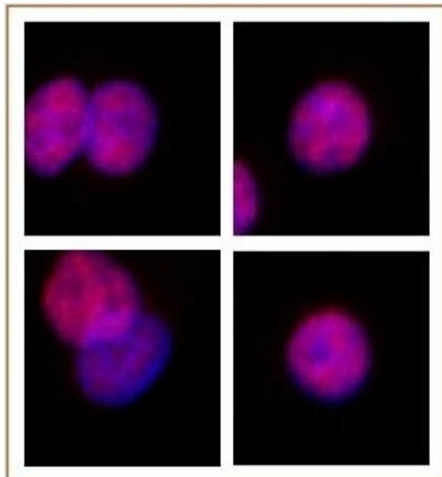
Storage Comment: Avoid repeated freeze/thaw cycles by aliquoting items into single-use fractions for storage at -

20°C for up to 2 years. Keep all reagents on ice when not in storage.



Western Blotting

Image 1. SMARCC2 / BAF170 antibody (pAb) tested by Western blot. Nuclear extract of K-562 cells (30 µg) probed with SMARCC2 / BAF170 antibody (1:500 dilution).



Immunofluorescence

Image 2. SMARCC2 / BAF170 antibody (pAb) tested by Immunofluorescence. Formaldehyde fixed HeLa cells stained with SMARCC2 / BAF170 antibody at a 1:2,000 dilution.