BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

# Anti-SMARCD3 Antibody (N-term)

**Catalog Number:** A06464

## About SMARCD3

Plays a role in ATP dependent nucleosome remodeling by SMARCA4 containing complexes. Stimulates nuclear receptor mediated transcription. 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).

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## Overview

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|---|---|
| Product Name | Anti-SMARCD3 Antibody (N-term) |
| Reactive Species | Human |
| Description | Boster Bio Anti-SMARCD3 Antibody (N-term) (Catalog # A06464). Tested in IF, WB application(s). This antibody reacts with Human. |
| Application | IF, WB |
| Clonality | Polyclonal |
| Formulation | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. |
| Storage Instructions | Maintain refrigerated at 2-8°C for up to 2 weeks. For long-term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles. |
| Host | Rabbit |
| Uniprot ID | Q6STE5 |

## Technical Details

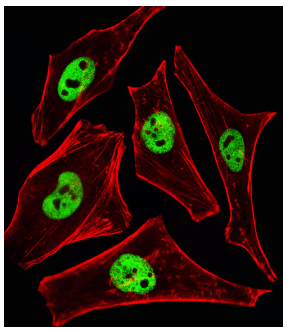
| | |
|---|---|
| Immunogen | This SMARCD3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic |

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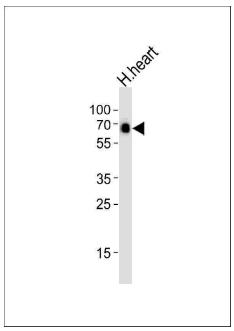
| | |
|---|---|
| | peptide between 27-60 amino acids from the N-terminal region of human SMARCD3. |
| Predicted Reactive Species | Mouse |
| Isotype | Rabbit IgG |
| Purification | This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Suggested Dilutions | IF: 1:25<br>WB: 1:1000 |

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# Anti-SMARCD3 Antibody (N-term) (A06464) Images



Fluorescent image of Hela cells stained with SMARCD3 Antibody (N-term). A06464 was diluted at 1:25 dilution. An Alexa Fluor 488-conjugated goat anti-rabbit IgG at 1:400 dilution was used as the secondary antibody (green). Cytoplasmic actin was counterstained with Alexa Fluor® 555 conjugated with Phalloidin (red).




Western blot analysis of lysate from human heart tissue lysate, using SMARCD3 Antibody (N-term) (Cat. #A06464). A06464 was diluted at 1:1000. A goat anti-rabbit IgG H&L (HRP) at 1:5000 dilution was used as the secondary antibody. Lysate at 35ug.

Anti-SMARCD3 Antibody (N-term)

For Research Use Only. Not for use in diagnostic procedures.