

## Product datasheet

# Anti-BAF57/SMARCE1 antibody ab14764

[2 References](#) [1 Image](#)

### Overview

Product name	Anti-BAF57/SMARCE1 antibody
Description	Goat polyclonal to BAF57/SMARCE1
Host species	Goat
Tested applications	<b>Suitable for:</b> WB, IHC-P
Species reactivity	<b>Reacts with:</b> Human <b>Predicted to work with:</b> Mouse 
Immunogen	Synthetic peptide: PPTDPIPEDEKKE , corresponding to amino acids 399-411 of Human BAF57/SMARCE1. <a href="#">Run BLAST with</a>  <a href="#">Run BLAST with</a> 
Positive control	Lysates prepared from HepG2, HeLa and Jurkat cells. Lysate prepared from transfected HEK293 transiently expressing BAF57. Human prostate tissue sections.

### Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.30 Preservative: 0.02% Sodium azide Constituents: Tris buffered saline, 0.5% BSA
Purity	Immunogen affinity purified
Purification notes	Purified from goat serum by ammonium sulphate precipitation followed by antigen affinity chromatography using the immunizing peptide.
Clonality	Polyclonal
Isotype	IgG

### Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab14764 in the following tested applications.

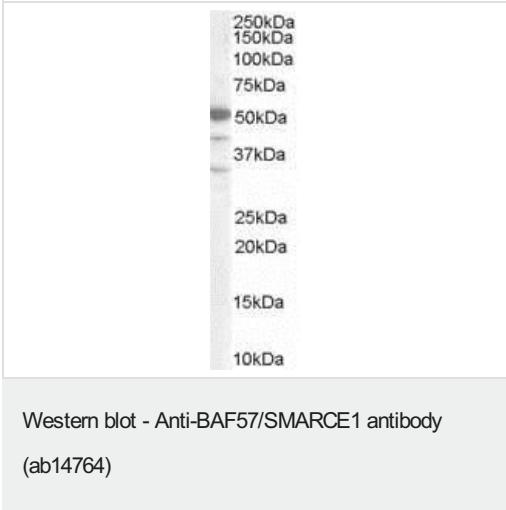
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		Use a concentration of 0.2 - 0.6 µg/ml. Detects a band of approximately 50 kDa (predicted molecular weight: 47 kDa). 1 hour primary incubation is recommended for this product.
IHC-P		Use a concentration of 3 - 5 µg/ml.

## Target

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. 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.
Sequence similarities	Contains 1 HMG box DNA-binding domain.
Domain	The HMG domain is essential for CD4 silencing and CD8 activation; mutation of this domain blocks thymus development.
Cellular localization	Nucleus.

## Images



Anti-BAF57/SMARCE1 antibody (ab14764) at 0.2 µg/ml + Jurkat lysate at 35 µg

**Predicted band size:** 47 kDa

**Observed band size:** 50 kDa

Primary incubation was 1 hour. Detected by chemiluminescence.

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

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