


Product datasheet

Anti-BAF53A antibody ab84486

[1 References](#) [3 Images](#)

Overview

Product name	Anti-BAF53A antibody
Description	Rabbit polyclonal to BAF53A
Host species	Rabbit
Tested applications	Suitable for: IHC-P, ICC/IF
Species reactivity	Reacts with: Mouse, Human Predicted to work with: Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Dog, Turkey, Pig, Chimpanzee, Rhesus monkey, Gorilla, Orangutan 
Immunogen	Synthetic peptide corresponding to Human BAF53A aa 1-100. Database link: O96019
Positive control	Human controls: Breast Carcinoma, Colon Carcinoma, Linitis Plastica Stomach Cancer, Ovarian Carcinoma, Pancreatic Islet Cell Tumor, Prostate Carcinoma, Skin Squamous Cell Carcinoma, Stomach Adenocarcinoma. Mouse controls: Colon Carcinoma CT26, Teratoma
General notes	<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: 6.8 Preservative: 0.09% Sodium azide Constituents: 0.1% BSA, Tris buffered saline
Purity	Immunogen affinity purified
Purification notes	Antibody was affinity purified using an epitope specific to BAF53A immobilized on solid support.
Clonality	Polyclonal

Isotype

IgG

Applications

The Abpromise guarantee

Our **Abpromise guarantee** covers the use of ab84486 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
IHC-P		1/100 - 1/500. Antigen retrieval is not essential but may optimise staining. The use of citrate buffer will enhance staining.
ICC/IF		1/100.

Target

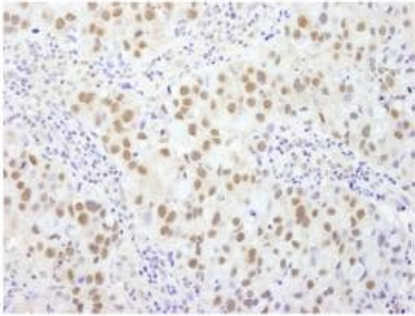
Relevance

This protein is a family member of actin-related proteins (ARPs), which share significant amino acid sequence identity to conventional actins. Both actins and ARPs have an actin fold, which is an ATP-binding cleft, as a common feature. The ARPs are involved in diverse cellular processes, including vesicular transport, spindle orientation, nuclear migration and chromatin remodeling. This protein is a 53 kDa subunit of the BAF (BRG1/brm-associated factor) complex in mammals, which is functionally related to SWI/SNF complex in *S. cerevisiae* and *Drosophila*; the latter is thought to facilitate transcriptional activation of specific genes by antagonizing chromatin-mediated transcriptional repression. Together with beta-actin, it is required for maximal ATPase activity of BRG1, and for the association of the BAF complex with chromatin/matrix. It is required for maximal ATPase activity of SMARCA4/BRG1 and for association of the SMARCA4/BRG1 containing remodelling complex BAF with chromatin/nuclear matrix. It is a component of the NuA4 histone acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes principally by acetylation of nucleosomal histone H4 and H2A. This modification may both alter nucleosome - DNA interactions and promote interaction of the modified histones with other proteins which positively regulate transcription. This complex may be required for the activation of transcriptional programs associated with oncogene and proto-oncogene mediated growth induction, tumor suppressor mediated growth arrest and replicative senescence, apoptosis, and DNA repair. NuA4 may also play a direct role in DNA repair when recruited to sites of DNA damage.

Cellular localization

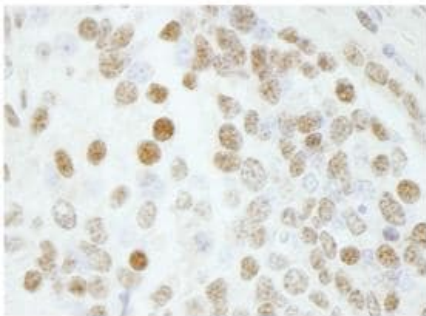
Nuclear

Images



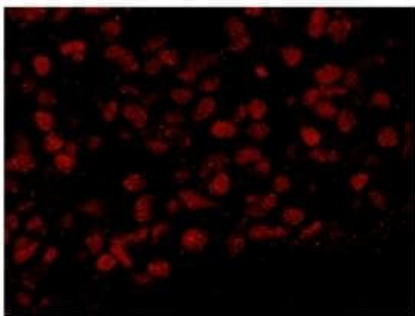
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAF53A antibody (ab84486)

ab84486 at 1/250 dilution staining formalin-fixed, paraffin-embedded section of human breast carcinoma by immunohistochemistry.
Detection: DAB staining.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-BAF53A antibody (ab84486)

ab84486 at 1/250 dilution staining formalin-fixed, paraffin-embedded section of mouse teratoma by immunohistochemistry.
Detection: DAB staining.



Immunocytochemistry/ Immunofluorescence - Anti-BAF53A antibody (ab84486)

ab84486 used a dilution of 1/100 staining formalin-fixed, paraffin-embedded section of human breast carcinoma by immunofluorescence.
Detection: Red-fluorescent goat anti-rabbit IgG.

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

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