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Datasheet for ABIN6243024 anti-BAF53A antibody (C-Term)

3 Images



Overview

Quantity:	400 μL
Target:	BAF53A
Binding Specificity:	AA 295-320, C-Term
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This BAF53A antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This Mouse Actl6a antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 295-320 amino acids from the C-terminal region of Mouse Actl6a.
Clone:	RB51048
lsotype:	Ig Fraction
Predicted Reactivity:	Pr
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.
Target Details	

Target:

BAF53A

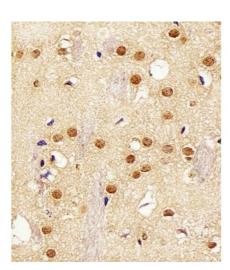
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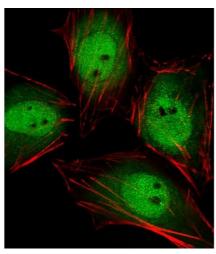
Target Details	
Alternative Name:	Actl6a (BAF53A Products)
Background:	Involved in transcriptional activation and repression of select genes by chromatin remodeling
	(alteration of DNA-nucleosome topology). Required for maximal ATPase activity of
	SMARCA4/BRG1/BAF190A and for association of the SMARCA4/BRG1/BAF190A containing
	remodeling complex BAF with chromatin/nuclear matrix. Component of the NuA4 histone
	acetyltransferase (HAT) complex which is involved in transcriptional activation of select genes
	principally by acetylation of nucleosomal histones 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. 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 (By similarity). Belongs to the neural progenitors-specific chromatin remodeling
	complex (npBAF complex) and is required for the proliferation of neural progenitors. 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. Proposed core component of the chromatin remodeling INO80
	complex which is involved in transcriptional regulation, DNA replication and probably DNA
	repair (By similarity).
Molecular Weight:	47448
UniProt:	Q9Z2N8
Pathways:	Chromatin Binding, Photoperiodism

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Application Details	
Application Notes:	IF: 1:25. WB: 1:1000. IHC-P: 1:25
Restrictions:	For Research Use only
Handling	
Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Expiry Date:	6 months

Images





Immunohistochemistry (Paraffin-embedded Sections)

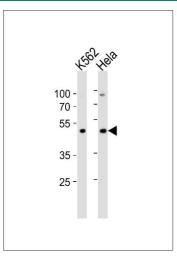
Image 1. Immunohistochemical analysis of paraffinembedded M. brain section using Mouse Actl6a Antibody (C-term) (ABIN6243024 and ABIN6577692). (ABIN6243024 and ABIN6577692) was diluted at 1:25 dilution. A undiluted biotinylated goat polyvalent antibody was used as the secondary, followed by DAB staining.

Immunofluorescence

Image 2. Fluorescent image of Hela cells stained with Mouse Actl6a Antibody (C-term) (ABIN6243024 and ABIN6577692). (ABIN6243024 and ABIN6577692) 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).

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Images



Western Blotting

Image 3. Western blot analysis of lysates from K562, Hela cell line (from left to right), using Actl6a Antibody (C-term) (ABIN6243024 and ABIN6577692). (ABIN6243024 and ABIN6577692) was diluted at 1:1000 at each lane. A goat anti-rabbit IgG H&L(HRP) at 1:10000 dilution was used as the secondary antibody. Lysates at 20 µg per lane.

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