

BAF53B Polyclonal Antibody

Catalog NumberPA5-25247

Product data sheet

Details		Species Reactivity	
Size	400 µL	Species reactivity	Human
Host/Isotope	Rabbit / IgG	Tested Applications	
Class	Polyclonal	Flow Cytometry (Flow)	Dilution *1:10-1:50
Type	Antibody	Immunohistochemistry (Paraffin) (IHC (P))	1:50-1:100
Immunogen	KLH conjugated synthetic peptide between 42-70 amino acids from the N-terminal region of human ACTL6B	Western Blot (WB)	1:1,000
		* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Conjugate	Unconjugated		
Form	Liquid		
Concentration	Lot-specific		
Storage Conditions	-20° C, Avoid Freeze/Thaw Cycles		

Background/Target Information

Belongs to the chromatin remodeling brain-specific BAF (bBAF) complex, as such plays a role in remodeling mononucleosomes in an ATP-dependent fashion. Belongs to the neuron-specific chromatin remodeling complex (nBAF complex) and is required for postmitotic neural development and dendritic outgrowth. 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. ACTL6B/BAF53B is not essential for assembly of the nBAF complex but is required for targeting the complex and CREST to the promoter of genes essential for dendritic growth.

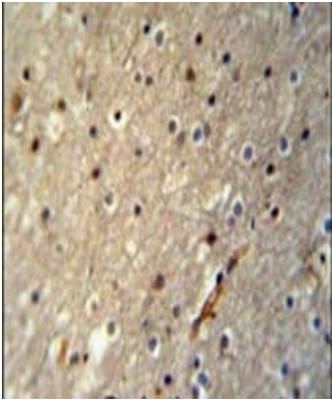
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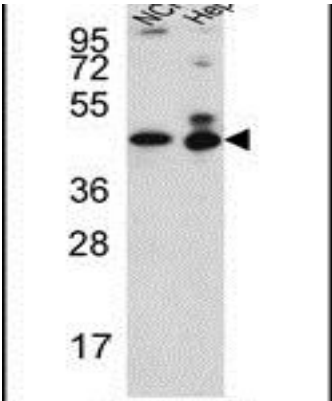
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Product Images For BAF53B Polyclonal Antibody



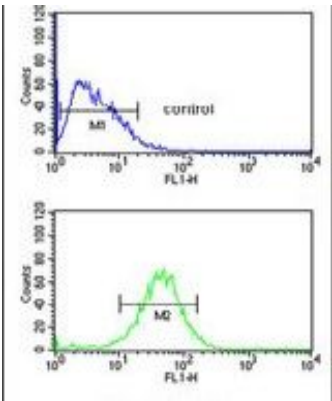
**BAF53B Antibody (PA5-25247) in IHC**

Immunohistochemistry analysis in formalin-fixed, paraffin-embedded human brain tissue using an ACTL6B polyclonal antibody (Product # PA5-25247), followed by HRP-conjugated secondary antibody and DAB staining.



**BAF53B Antibody (PA5-25247) in WB**

Western blot analysis using an ACTL6B polyclonal antibody (Product # PA5-25247) in NCI-H460, HepG2 cell lysates (35 µg per lane).



**BAF53B Antibody (PA5-25247) in Flow**

Flow cytometry analysis of HepG2 cells using an ACTL6B polyclonal antibody (Product # PA5-25247) (bottom) compared to a negative control cell (top) at a dilution of 1:10-50, followed by a FITC-conjugated goat anti-rabbit antibody

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