



Rabbit Anti-Human BAF53A monoclonal antibody, clone 6I4M7 (CABT-L1180)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	ACTL6A
Immunogen	Peptide corresponding to human BAF53A (aa124-142)
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	6I4M7
Purification	Protein A Purified
Conjugate	Unconjugated
Applications	FC, ICC, IF, WB
Format	Liquid
Concentration	0.5 mg/ml
Buffer	PBS, pH 7.4
Preservative	0.09% Sodium Azide
Storage	-20°C, Avoid Freeze/Thaw Cycles

BACKGROUND

Introduction

BAF53A 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 gene encodes a 53 kDa subunit protein 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. Three transcript variants that encode two different protein isoforms have been described.

Keywords

ACTL6A;actin-like 6A;Arp4;ACTL6;BAF53A;INO80K;ARPN-BETA;actin-like protein 6A;BAF53;arpNbeta;hArpN beta;INO80 complex subunit K;actin-related protein 4;BAF complex 53 kDa subunit;BRG1-associated factor 53A;actin-related protein Baf53a;53 kDa BRG1-associated factor A

GENE INFORMATION

Entrez Gene ID

[86](#)

UniProt ID

[O96019](#)