Recombinant SMARCC2/BAF170 Monoclonal Antibody

catalog number: **AN302065L**

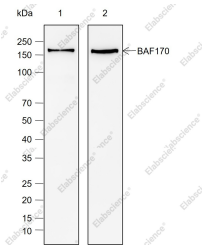
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse
Immunogen	Peptide. This information is proprietary to PTMab
Host	Rabbit
Isotype	Rabbit IgG
Clone	C221686
Purification	Protein A affinity purification
Conjugation	Unconjugated
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:1000-1:2000
IHC	1:500-1:1000
IP	1:50-1:100
FCM	1:100

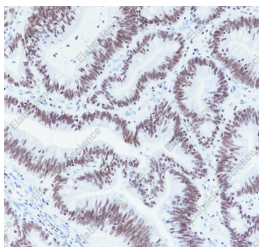
Data



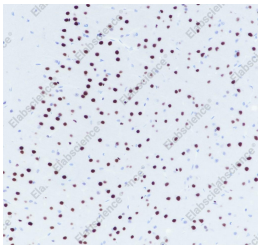
Western Blot with SMARCC2/BAF170 Monoclonal Antibody at dilution of 1:2000. Lane 1: PANC-1, Lane 2: HeLa

Observed-MW:170 kDa

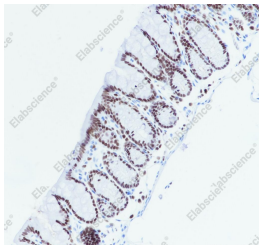
Calculated-MW:133 kDa



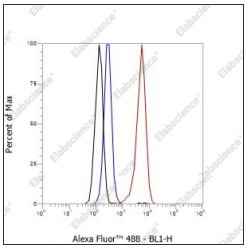
Immunohistochemistry of paraffin-embedded Human colon cancer using SMARCC2/BAF170 Monoclonal Antibody at dilution of 1:1000.



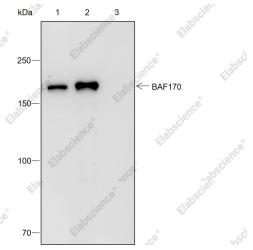
Immunohistochemistry of paraffin-embedded Mouse cerebrum using SMARCC2/BAF170 Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Mouse colon using SMARCC2/BAF170 Monoclonal Antibody at dilution of 1:1000.



Flow cytometric analysis of human SMARCC2/BAF170 expression on A549 cells. Cells were stained with purified anti-Human SMARCC2/BAF170, then a Alexa Fluor 488-conjugated second step antibody. The histogram were derived from events with the forward and side light-scatter characteristics of intact cells.



Immunoprecipitation analysis using anti-SMARCC2/BAF170 Monoclonal Antibody. Western blot was performed from the immunoprecipitate using SMARCC2/BAF170 Monoclonal Antibody at a dilution of 1:100. Lane 1: 5% Input, Lane 2: SMARCC2/BAF170 Monoclonal Antibody, Lane 3: Rabbit monoclonal IgG Isotype

Observed-MW:170 kDa

Calculated-MW:133 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze/thaw cycles.
Shipping	Ice bag

Background

Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology).Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by alteringDNA-histone contacts within a nucleosome in an ATP-dependent manner. BAF170 is one of the core subunits of the SWI/SNF complex, which is necessary for efficient nucleosome remodeling by Brg1 in vitro. While BAF170 has been shown to be part of the SWI/SNF complexin non-pluripotent cell s, it is absent in pluripotent embryonic stem (ES) cells. Research studies have shown that expression of BAF170 is upregulated in neurons/neuronal progenitors upon differentiation of mouse ES cells with retinoic acid, and exogenous expression of BAF170leads to loss of stem cell pluripotency and self renewal.