

Recombinant SMARCC2/BAF170 Monoclonal Antibody

catalog number: **AN302065L**

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

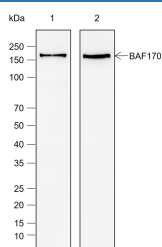
Description

Reactivity	Human;Mouse
Immunogen	Peptide. This information is proprietary to PTMab.
Host	Rabbit
Isotype	IgG, κ
Clone	A785
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications Recommended Dilution

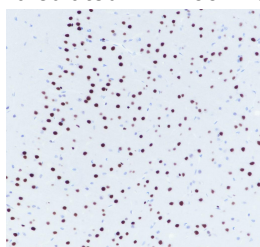
WB	1:1000-1:2000
IHC	1:500-1:1000
FCM	1:100
IP	1:50-1:100

Data

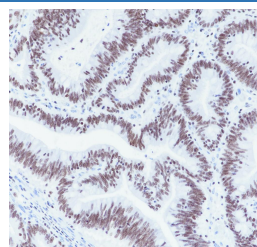
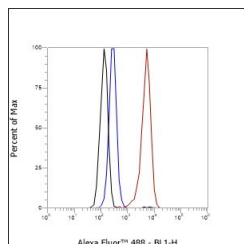


Western Blot with SMARCC2/BAF170 Monoclonal Antibody at dilution of 1:2000. Lane 1: PANC-1, Lane 2: HeLa

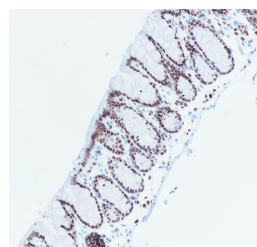
Observed-MW:170 kDa
Calculated-MW:133 kDa



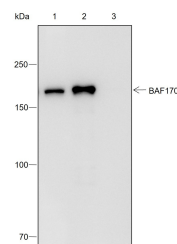
Immunohistochemistry of paraffin-embedded Mouse cerebrum using SMARCC2/BAF170 Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Human colon cancer 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.



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Rev. V1.1

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 altering DNA-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 complex in non-pluripotent cells, 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 BAF170 leads to loss of stem cell pluripotency and self renewal.

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