

SMARCC1 Rabbit mAb

Catalog # AP76097

Product Information

| | |
|-------------------|------------------------|
| Application | WB, IP, ICC |
| Primary Accession | Q92922 |
| Reactivity | Human, Rat |
| Host | Rabbit |
| Clonality | Monoclonal Antibody |
| Calculated MW | 122867 |

Additional Information

| | |
|-------------|-----------------------------------|
| Gene ID | 6599 |
| Other Names | SMARCC1 |
| Dilution | WB~~1/500-1/1000 IP~~N/A ICC~~N/A |
| Format | Liquid |

Protein Information

| | |
|----------|---|
| Name | SMARCC1 (HGNC:11104) |
| Synonyms | BAF155 |
| Function | <p>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. May stimulate the ATPase activity of the catalytic subunit of the complex (PubMed:10078207, PubMed:29374058). Belongs to the neural progenitors-specific chromatin remodeling complex (npBAF complex) and the neuron-specific chromatin remodeling complex (nBAF complex). During neural development a switch from a stem/progenitor to a postmitotic 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 postmitotic 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</p> |

growth (By similarity).

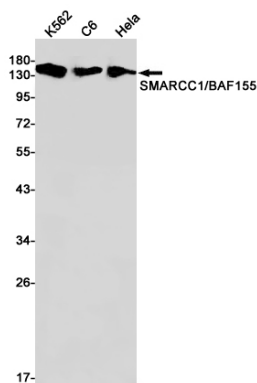
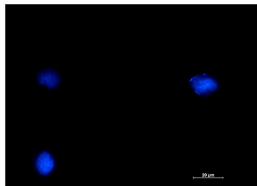
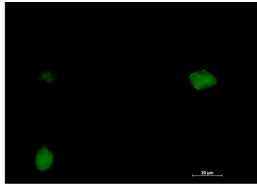
Cellular Location

Nucleus. Cytoplasm

Tissue Location

Expressed in brain, heart, muscle, placenta, lung, liver, muscle, kidney and pancreas

Images



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