

Product datasheet for **TA385285**

SMARCC1 Rabbit Monoclonal Antibody [Clone ID: R07-6K6]

Product data:

Product Type:	Primary Antibodies
Clone Name:	R07-6K6
Applications:	IF, IP, WB
Recommended Dilution:	WB: 1/1000-1/5000 ICC/IF: 1/50-1/200 IP: 1/20-1/50
Reactivity:	Human, Rat
Host:	Rabbit
Isotype:	IgG
Clonality:	Monoclonal
Immunogen:	A synthetic peptide of human SMARCC1
Formulation:	50mM Tris-Glycine(pH 7.4), 0.15M NaCl, 40% Glycerol, 0.01% Sodium azide and 0.05% BSA
Concentration:	lot specific
Purification:	Affinity Purified
Conjugation:	Unconjugated
Storage:	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Stability:	1 year
Predicted Protein Size:	Calculated MW: 123 kDa; Observed MW: 155 kDa
Gene Name:	SWI/SNF related, matrix associated, actin dependent regulator of chromatin subfamily c member 1
Database Link:	Entrez Gene 6599 Human Q92922



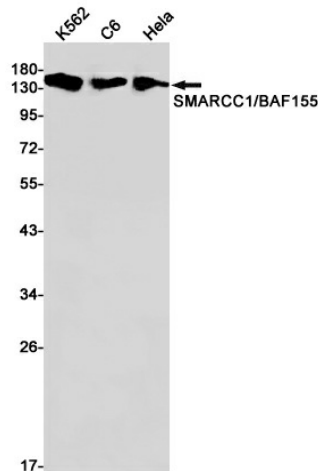
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Background:

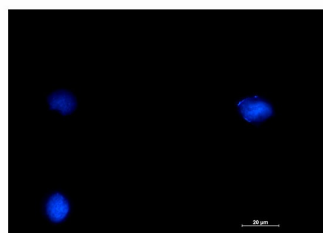
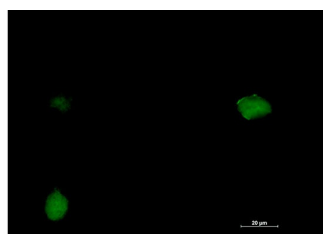
Swiss-Prot Acc.Q92922. Involved in transcriptional activation and repression of select genes by chromatin remodeling (alteration of DNA-nucleosome topology). Component of SWI/SNF chromatin remodeling complexes that carry out key enzymatic activities, changing chromatin structure by altering DNA-histone 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 growth .

Synonyms:

BAF155; CRACC1; Rsc8; SRG3; SWI3

Product images:

Western blot analysis of SMARCC1/BAF155 in K562, C6, HeLa lysates using SMARCC1/BAF155 antibody.



Immunocytochemistry analysis of SMARCC1 (green) in HT-1080 using SMARCC1 antibody, and DAPI(blue).