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Product datasheet for TP511594

Smarcc1 (BC052423) Mouse Recombinant Protein

Product data:

Product Type: Recombinant Proteins

Description: Purified recombinant protein of Mouse SWI/SNF related, matrix associated, actin dependent regulator of chromatin, subfamily c, member 1 (cDNA clone, with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug

Species: Mouse

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >MR211594 protein sequence
Red=Cloning site Green=Tags(s)

MAATAGGGPGAAAGAVGAGGAAAASGLAVYRRKDGGPASKFWESPDTVSQLDSVRVWLGKHYKKYVHADA
PTNKTLAGLVVQLLQFQEDAFGKHVTNPAFTKLPAKCFMDFKAGGTLCHILGAAYKYKNEQGWRRFDLQN
PSRMDRNVEMFMNIEKTLVQNNCLTRPNIYLIPDIDLKLANKLKDIIKRHQGTFTDEKSKASHHIYPYPS
SQEDEEWLRPVMRRDKQVLVHWGFYPDSYDTWVHSNDVDAEIEDAPIPEKPWKVHVKWILDTDVFNEWMN
EEDYEVDENRKPVSFRQRISTKNEEPVRSPERRDRKASANSRKRKPSPSPPPPTATESRKKSGKKGQASL
YGKRRSQKEEDEQEDLTKDMEDPTPVPNIEEVVLPKNVNPKKDSENTPVKGGTVADLDEQDEEAVTTGGK
EDEDPSKGDPSRSVDPGEDNVTEQTNHIIIPSYASWFDYNCIHVIERRALPEFFNGKNKSKTPEIYLAYR
NFMIDTYRLNPQEYLTSTACRRNLTGDVCAVMRVHAFLEQWGLVNYQVDPESRPMAMGPPPTPHFNVLAD
TPSGLVPLHLRSPQVPAAQQMLNFPEKNKEKPIDLQNFGLRTDIYSKKTLAKSKGASAGREWTEQETLLL
LEALEMYKDDWNKVSEHVGSRTQDECILHFLRLPIEDPYLENSDASLGPLAYQPVPFSQSGNPVMSTVAF
LASVVDPRVASAAAKAALEEFSRVREEVPLELVEAHVKKVQEAARASGKVDPTYGLESSCIAGTGPDEPE
KLEGSEEEKMETDPDGQQPEKAENKVENESDEGDKIQDRENEKNTEKEQDSDVSEDVKPEEKENEENKEL
TDTCKERESDAGKKKVEHEISEGNVATAAAAALASAATKAKHLAAVEERKIKSLVALLVETQMKKLEIKL
RHFEELETIMDREKEALEQQRQQLLTERQNFHMEQLKYAELLARQQMEQQQQHGQTPQQAHQHTGGPGMA
PLGATGHPGMMPHQQPPPYPLMHHQMPPPHPPQPGQIPGPGSMMPGQPMPGRMIPAVAANIHPTGSGPTP
PGMPPMPGNILGPRVPLTAPNGMCK

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag: C-MYC/DDK

Predicted MW: 120 kDa

Concentration: >0.05 µg/µL as determined by microplate BCA method

Purity: > 80% as determined by SDS-PAGE and Coomassie blue staining

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Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C after receiving vials.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Locus ID:	20588
UniProt ID:	P97496
RefSeq Size:	3532
Cytogenetics:	9 F2
RefSeq ORF:	3225
Synonyms:	Rsc8, BAF155, SRG3
Summary:	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. 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.[UniProtKB/Swiss-Prot Function]