

Product datasheet for TP511537

Smarca5 (NM_053124) 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 a, member 5 (Smarca5), with C-terminal MYC/DDK tag, expressed in HEK293T cells, 20ug
Species:	Mouse
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>MR211537 representing NM_053124 Red=Cloning site Green=Tags(s)

MSSAVEPPPPPPESAPSKPSAAGAGGSSSGNKGPEGGAAPAAPCAAGSGPADTEMEEVFDHGSPGKQK
EIQEPDPTYEEKMQTDRANRFEYLLKQTELFAHFQIPAAQKTPTSPLKMKPGRPRVKKDEKQNLLSVGDY
RHRRTQEEDDELLTESSKATNVCTRFEDSPSYVKWGLRDYQVRGLNWLISLYENGINLADDEMGLGK
TLQTISLLGYMKHYRNIPGPHMVLVPKSTLHNWMSEFKKWVPTLRSVCLIGDKEQRAAFVRDVLPGEW
VCVTSYEMLIKEKSVFKFNWRYLVIDEAHRIKNEKSKLSEIVREFKTTNRLLLTGTPNQNLHELWLL
NLLPDVFN SADD FDSWFD TNNCLGDQKLVERLHMVLRPFLRRIKADVEKSLPPKKEVIYVGLSKMQR
EWYTRILMKDIDILNSAGKMDKMRLNLMQLRCCNHPYLFDAEPGPPYTTDMHLVTNSGKMVWLDKL
LPKLKEQGSRLIFSQMTRVLDILEDYCMWRNYEYCRDLGQTPHDERQDSINAYNEPNSTKVFVMLSTRA
GGLGINLATADVILYDSDWNPQVDLQAMDRAHRIGQTKTVRVFRFITDNTVEERIVERAEMKLRDLSIV
IQQGRVLDQNLNKIGKDEMLQMIRHGATHVFASKESITDEDIDGILERGAKKTAEMNEKLSKMGESSLR
NFTMDTESSVYNFEGEDYREKQKIAFTEWIEPPKRRERKANYAVDAYFREARVSEPKAPKAPRPPKQPNV
QDFQFFPRLFELLEKEILYYRKTIGYKVPSPDLNAAQAQKEEQLKIDEAEPLNDEELEEKEKLLTQG
FTNWNKRDFNQFIKANEKWRDDIENIAREVEGKTPEEVIEYSAVFWERCNELQDIEKIMAQIERGEARI
QRRISIKKALDTKIGRYKAPFHQLRISYGTNKGKNYTEEEDRFLICMLHKLGFDKENVYDELRCIRNSP
QFRFDWFLKSRTAMELQRRCNTLITLIERENMELEEKEKAEKKRGPKPSTQKRKMDGAPDGRGRKKKLK
L

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-MYC/DDK
Predicted MW:	122.1 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.
RefSeq:	NP_444354
Locus ID:	93762
UniProt ID:	Q91ZW3
RefSeq Size:	4658
Cytogenetics:	8 C2
RefSeq ORF:	3153
Synonyms:	4933427E24Rik; D030040M08Rik; D330027N15Rik; MommeD4; Snf2h
Summary:	Helicase that possesses intrinsic ATP-dependent nucleosome-remodeling activity. Complexes containing SMARCA5 are capable of forming ordered nucleosome arrays on chromatin; this may require intact histone H4 tails. Also required for replication of pericentric heterochromatin in S-phase specifically in conjunction with BAZ1A. Probably plays a role in repression of polI dependent transcription of the rDNA locus, through the recruitment of the SIN3/HDAC1 corepressor complex to the rDNA promoter. Essential component of the WICH complex, a chromatin remodeling complex that mobilizes nucleosomes and reconfigures irregular chromatin to a regular nucleosomal array structure. The WICH complex regulates the transcription of various genes, has a role in RNA polymerase I and RNA polymerase III transcription, mediates the histone H2AX phosphorylation at 'Tyr-142', and is involved in the maintenance of chromatin structures during DNA replication processes. Essential component of the NoRC (nucleolar remodeling complex) complex, a complex that mediates silencing of a fraction of rDNA by recruiting histone-modifying enzymes and DNA methyltransferases, leading to heterochromatin formation and transcriptional silencing.[UniProtKB/Swiss-Prot Function]