

Recombinant Human SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1

Catalog No: #AP73056

Orders: order@signalwayantibody.comSupport: tech@signalwayantibody.com

Package Size: #AP73056-1 20ug #AP73056-2 100ug #AP73056-3 1mg

Description

Product Name	Recombinant Human SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily B member 1
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:2-376aaSequence Info:Partial
Other Names	BRG1-associated factor 47 ;BAF47Integrase interactor 1 protein;SNF5 homolog ;hSNF5
Accession No.	Q12824
Uniprot	Q12824
GeneID	6598;
Calculated MW	45 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	MMMALSKTFGQKPVKFLQLEDDGEFYMIGSEVGNLYLRMFRGSLYKRYPSLWRRRLATVEERKKIVASSHGKTK PNTKDHGYTTLATSVTLKASEVEEILDGNDEKYKAVSISTEPPTYLREQKAKRNSQWVPTLPNSSHHLDAVPC STTINRNRMGDRDKRTFPLCFDDHDPVIAHENASQPEVLVPIRLDMEIDGQKLRDAFTWNMNEKLMTPEMFSE ILCDDLNLNPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVVIKLNHIVGNISLVDQFEWDMSEKENSPEKFALKL CSELGLGGEFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTGDADQWCPLLETLTDAEMEKIRDQDRN TRRMR
Formulation	Tris-based buffer50% glycerol
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

Core component of the BAF (hSWI,SNF) complex. This ATP-dependent chromatin-rodelling complex plays important roles in cell proliferation and differentiation, in cellular antiviral activities and inhibition of tumor formation. The BAF complex is able to create a stable, altered form of chromatin that constrains fewer negative supercoils than normal. This change in supercoiling would be due to the conversion of up to one-half of the nucleosomes on polynucleosomal arrays into asymmetric structures, termed altosomes, each composed of 2 histones octamers. Stimulates in vitro the rodelling activity of SMARCA4,BRG1,BAF190A. Involved in activation of CSF1 promoter. Belongs to the neural progenitors-specific chromatin rodelling complex (npBAF complex) and the neuron-specific chromatin rodelling complex (nBAF complex). During neural development a switch from a st,progenitor to a post-mitotic chromatin rodelling mechanism occurs as neurons exit the cell cycle and become committed to their adult state. The transition from proliferating neural st,progenitor cells to post-mitotic 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. Plays a key role in cell-cycle control and causes cell cycle arrest in G₀, G₁.

References

Human Inr1 27bp deletion form. Tozaki H., Yasuda J., Iwakura Y. A genome annotation-driven approach to cloning the human ORFeome. Collins J.E., Wright C.L., Edwards C.A., Davis M.P., Grinham J.A., Cole C.G., Goward M.E., Aguado B., Mallya M., Mokrab Y., Huckle E.J., Beare D.M., Dunham I. *Genome Biol.* 5:R84.1-R84.11(2004) Research Topic: Cell Cycle

Note: This product is for in vitro research use only