

Recombinant Human ARHGAP19 Protein (1-494 aa), His-SUMO-tagged

Cat. No. ARHGAP19-1015H Lot. No. (See product label)

SPECIFICATION

Product Overview Recombinant Human ARHGAP19 Protein (1-494 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Cell Cycle. Protein Description: Full Length.

Species Human

Source E.coli

ProteinLength 1-494 aa

Description 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

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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 st 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.

Form Tris-based buffer, 50% glycerol

Molecular Mass 60.1 kDa

AA Sequence MMMMALSKTFGQKPVKFKLEDDGEFYMIGSEVGNLYLRMFRGSLYKRYPSLWRRLA
TVEERKKIVASSHGKKTNPNTKDHGYTTLATSVTLLKASEVEEILDGNDEKYKAVSIS
TEPPTYLREQKAKRNSQWVPTLPNSSHHLDVPCSTTINRNRMGDKKRTFPLCFD
DHDPAVIHENASQPEVLVPIRLDMEIDGQKLRDAFTWNMNEKLMTPEMFSEILCDDL
DLNPLTFVPAIASAIRQQIESYPTDSILEDQSDQRVVIKLNHVGNISLVDQFEWDMSEK
ENSPEKFALKLCSELGLGGFVTTIAYSIRGQLSWHQKTYAFSENPLPTVEIAIRNTG
DADQWCPLLETLTDAEMKIRDQDRNTRRMRLANTAPAW

Purity > 90% as determined by SDS-PAGE.

Notes Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.

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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12

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months at -20 centigrade/-80 centigrade.

Concentration A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name ARHGAP19 Rho GTPase activating protein 19 [Homo sapiens]

Official Symbol ARHGAP19

Synonyms ARHGAP19; FLJ00194; MGC14258; MGC138804; MGC138805; DKFZp313K217;

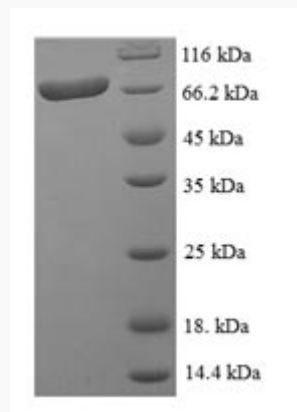
Gene ID 84986

mRNA Refseq NM_001204300

Protein Refseq NP_001191229

MIM 611587

UniProt ID Q14CB8



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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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