AHNAK (neuroblast differentiation-associated protein AHNAK, desmoyokin) is a 5,890 amino acid protein encoded by the human gene AHNAK. The intronless AHNAK gene is located on human chromosome 11q12.3 and has 3 main structural regions: the 251 amino acid N-terminus, a large central region of 4,390 amino acids with multiple repeated units of about 128 amino acids in length, and the 1,002 amino acid C-terminus. The central region seems to have antiparallel β-strands connected by intervening loops. Several putative regulatory elements are clustered within the C-terminal region, including nuclear export localization signals, a leucine zipper, and potential phosphorylation sites for Akt1 and PKC. AHNAK is believed to be an important signalling molecule involved in a wide range of physiological activities and may be required for neuronal cell differentiation. AHNAK also appears to influence β-adrenergic regulation of cardiac L-type Ca²⁺ channel function.

REFERENCES

CHROMOSOMAL LOCATION
Genetic locus: AHNAK (human) mapping to 11q12.3; Ahnak (mouse) mapping to 19 A.

SOURCE
AHNAK (H-153) is a rabbit polyclonal antibody raised against amino acids 5568-5720 mapping near the C-terminus of AHNAK of human origin.

PRODUCT
Each vial contains 200 µg IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

APPLICATIONS
AHNAK (H-153) is recommended for detection of AHNAK of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

AHNAK (H-153) is also recommended for detection of AHNAK in additional species, including equine and bovine.

Suitable for use as control antibody for AHNAK siRNA (h): sc-97060, AHNAK siRNA (m): sc-140916, AHNAK shRNA Plasmid (h): sc-97060-SH, AHNAK shRNA Plasmid (m): sc-140916-SH, AHNAK shRNA (h) Lentiviral Particles: sc-97060-V and AHNAK shRNA (m) Lentiviral Particles: sc-140916-V.

Molecular Weight of AHNAK: 630 kDa.

Positive Controls: HeLa nuclear extract: sc-2120.

DATA

STORAGE
Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE
For research use only, not for use in diagnostic procedures.

PROTOCOLS
See our web site at www.scbt.com or our catalog for detailed protocols and support products.

MONOS Satisfaction Guaranteed
Try AHNAK (E-5): sc-390743 or AHNAK (1G11): sc-134252, our highly recommended monoclonal alternatives to AHNAK (H-153).