

SmarcAL1 (H-124): sc-292681

BACKGROUND

SmarcAL1 (SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A-like protein 1), also known as HARP (HepA-related protein) or HHARP, is a 954 amino acid member of the SWI/SNF family of helicase and ATPase proteins. Localized to the nucleus, SmarcAL1 is a ubiquitously expressed protein that functions in ATP-dependent nucleosome-remodeling activities. SmarcAL1 contains one conserved C-terminal SNF2 domain, one helicase ATP-binding domain and two HARP domains. Defects in the gene encoding SmarcAL1 are the cause of Schimke immuno-osseous dysplasia (SIOD), an autosomal recessive disorder characterized by renal dysfunction, spondyloepiphyseal dysplasia and T cell immunodeficiency.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: SMARCAL1 (human) mapping to 2q35; SmarcAL1 (mouse) mapping to 1 C3.

SOURCE

SmarcAL1 (H-124) is a rabbit polyclonal antibody raised against amino acids 831-954 mapping at the C-terminus of SmarcAL1 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

SmarcAL1 (H-124) is recommended for detection of SmarcAL1 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

SmarcAL1 (H-124) is also recommended for detection of SmarcAL1 in additional species, including equine.

Suitable for use as control antibody for SmarcAL1 siRNA (h): sc-63042, SmarcAL1 siRNA (m): sc-63043, SmarcAL1 shRNA Plasmid (h): sc-63042-SH, SmarcAL1 shRNA Plasmid (m): sc-63043-SH, SmarcAL1 shRNA (h) Lentiviral Particles: sc-63042-V and SmarcAL1 shRNA (m) Lentiviral Particles: sc-63043-V.

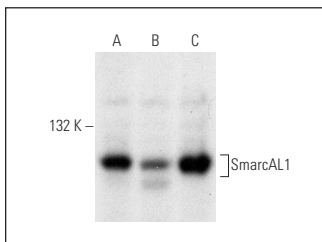
Molecular Weight of SmarcAL1: 110 kDa.

Positive Controls: DU 145 nuclear extract: sc-24960, A-431 nuclear extract: sc-2122 or Jurkat nuclear extract: sc-2132.

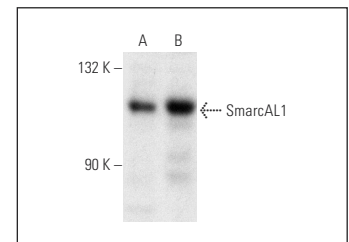
RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



SmarcAL1 (H-124): sc-292681. Western blot analysis of SmarcAL1 expression in DU 145 (A), A-431 (B) and Jurkat (C) nuclear extracts.



SmarcAL1 (H-124): sc-292681. Western blot analysis of SmarcAL1 expression in HeLa (A) and CCRF-CEM (B) nuclear extracts.

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.