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Datasheet for ABIN7452047

anti-SMARCAL1 antibody (AA 904-954)

Overview

Quantity:	20 µg
Target:	SMARCAL1
Binding Specificity:	AA 904-954
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This SMARCAL1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunoprecipitation (IP)

Product Details

Purpose:	Rabbit anti-SMARCAL1 Antibody, Affinity Purified
Immunogen:	between AA 904 and 954
Isotype:	IgG
Predicted Reactivity:	Bovine
Purification:	Affinity Purified

Target Details

Target:	SMARCAL1
Alternative Name:	SMARCAL1 (SMARCAL1 Products)
Background:	Background: The SMARCs (SWI/SNF-related, matrix-associated, actin-dependent regulators of

Target Details

chromatin), and BAFs (BRG1-associated factors), have been identified as components of the mammalian SWI/SNF-like chromatin-remodeling protein complexes. These multi-protein complexes are proposed to function as ATP-driven motors that translocate along DNA and destabilize nucleosomal structures to facilitate transcription factor binding. SMARCAL1 is a member of the SNF2 family. SMARCAL1 is also known as human hep-related protein (HARP) due to its sequence identity with the E. coli RNA polymerase-binding protein HepA. It has been determined that mutations in SMARCAL1 are the cause of Schimke immuno-osseous dysplasia (SIOD), an autosomal-recessive disorder characterized by spondyloepiphyseal dysplasia, renal dysfunction, facial dysmorphism, and T-cell immunodeficiency. The pleiotropic characteristics of SIOD indicate an important role for SMARCAL1 in the regulation of multiple genes that influence the proliferation of chondrocytes, lymphocytes, and spermatocytes, as well as the development of cardiomyocytes and vascular homeostasis.

Gene ID: 50485

NCBI Accession: [NP_054859](#)

UniProt: [Q9NZC9](#)

Pathways: [Embryonic Body Morphogenesis](#)

Application Details

Application Notes: IP: 2 - 5 µg/mg lysate
WB: 1:2,000 - 1:10,000

Restrictions: For Research Use only

Handling

Concentration: 200 µg/mL

Buffer: Tris-buffered Saline containing 0.1 % BSA and 0.09 % Sodium Azide

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: 4 °C

Expiry Date: 12 months