10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

SMARCAD1 antibody - N-terminal region

Rabbit Polyclonal Antibody
Catalog # AI10135

Product Information

Application	WB
Primary Accession	Q9H4L7
Other Accession	Q9H4L7, AAH17953, Q05D56
Reactivity	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Predicted	Human, Mouse, Rat, Rabbit, Pig, Dog, Horse, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	117402

Additional Information

Gene ID	56916
Alias Symbol	DKFZp762K2015, ETL1, KIAA1122, HEL1, ADERM
Other Names	SWI/SNF-related matrix-associated actin-dependent regulator of chromatin subfamily A containing DEAD/H box 1, ATP-dependent helicase 1, hHEL1, SMARCAD1, KIAA1122
Target/Specificity	SMARCAD1 belongs to the SNF2/RAD54 helicase family. It contains 2 CUE domains, 1 helicase ATP-binding domain, and 1 helicase C-terminal domain. It is a probable ATP-dependent DNA helicase.
Format	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Reconstitution & Storage	Add 50 ul of distilled water. Final anti-SMARCAD1 antibody concentration is 1 mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at -20°C. Avoid repeat freeze-thaw cycles.
Precautions	SMARCAD1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

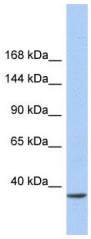
Name	SMARCAD1 (HGNC:18398)
Function	Protein that possesses intrinsic ATP-dependent nucleosome- remodeling activity and is both required for DNA repair and heterochromatin organization (PubMed:22960744, PubMed:21820097). Combines the ATP-dependent ability to exchange histones, with the chaperone-like ATP-independent activity to deposit histones and assemble nucleosomes (PubMed:21820097). Promotes

	DNA end resection of double-strand breaks (DSBs) following DNA damage: probably acts by weakening histone DNA interactions in nucleosomes flanking DSBs (PubMed:22960744). Required for the restoration of heterochromatin organization after replication (PubMed:21549307). Acts at replication sites to facilitate the maintenance of heterochromatin by directing H3 and H4 histones deacetylation, H3 'Lys-9' trimethylation (H3K9me3) and restoration of silencing (PubMed:21549307).
Cellular Location	Nucleus. Chromosome. Note=Colocalizes with PCNA at replication forks during S phase (PubMed:21549307). Recruited to double-strand breaks (DSBs) sites of DNA damage (PubMed:22960744)
Tissue Location	Isoform 1 is expressed ubiquitously. Isoform 3 is expressed mainly in skin and esophagus. Expressed in fibroblasts and keratinocytes (at protein level) (PubMed:29409814)

Background

This is a rabbit polyclonal antibody against SMARCAD1. It was validated on Western Blot using a cell lysate as a positive control. Abgent strives to provide antibodies covering each member of a whole protein family of your interest. We also use our best efforts to provide you antibodies recognize various epitopes of a target protein. For availability of antibody needed for your experiment, please inquire (sales@abgent.com).

Images



SMARCAD1 antibody - N-terminal region (AI10135) in Human Heart cells using Western Blot
WB Suggested Anti-SMARCAD1 Antibody Titration: 0.2-1 µg/ml
ELISA Titer: 1:12500
Positive Control: Human heart

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.