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SMARCAD1 antibody - N-terminal region
Rabbit Polyclonal Antibody
Catalog # AI10135

Specification

SMARCAD1 antibody - N-terminal region - 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	**39 kDa KDa**

SMARCAD1 antibody - N-terminal region - 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.

SMARCAD1 antibody - N-terminal region - Protein Information

Name SMARCAD1

Synonyms KIAA1122

Function
DNA helicase that possesses intrinsic ATP-dependent nucleosome-remodeling activity and is both required for DNA repair and heterochromatin organization. Promotes DNA end resection of double-strand breaks (DSBs) following DNA damage: probably acts by weakening histone DNA interactions in nucleosomes flanking DSBs. Required for the restoration of heterochromatin organization after replication. 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.

Cellular Location
Nucleus. Chromosome. Note=Colocalizes with PCNA at replication forks during S phase. Recruited to double-strand breaks (DSBs) sites of DNA damage

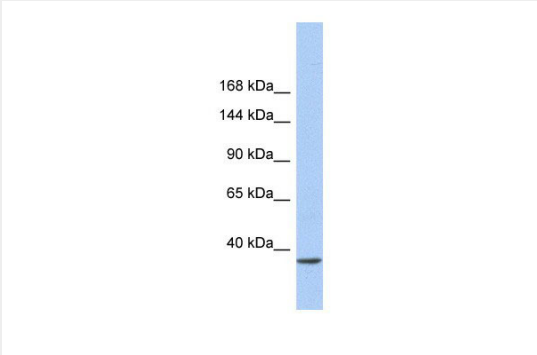
Tissue Location
Isoform 1 is expressed ubiquitously. Isoform 3 is expressed mainly in skin and esophagus. Expressed in fibroblasts and keratinocytes (at protein level) (PubMed:29409814)

SMARCAD1 antibody - N-terminal region - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

SMARCAD1 antibody - N-terminal region - 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

SMARCAD1 antibody - N-terminal region - 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).