

**SMARCAD1 antibody - N-terminal region**  
**Rabbit Polyclonal Antibody**  
**Catalog # AI10695****Specification**

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**SMARCAD1 antibody - N-terminal region - Product Information**

Application	WB
Primary Accession	<a href="#">O9H4L7</a>
Other Accession	<a href="#">NM_020159</a> , <a href="#">NP_064544</a>
Reactivity	Human, Rat, Rabbit, Pig, Horse, Bovine, Dog
Predicted Host	Human, Rat, Pig, Horse, Dog
Clonality	Rabbit
Calculated MW	Polyclonal 117kDa 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, 3.6.4.12, ATP-dependent helicase 1, hHEL1, SMARCAD1, KIAA1122

**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

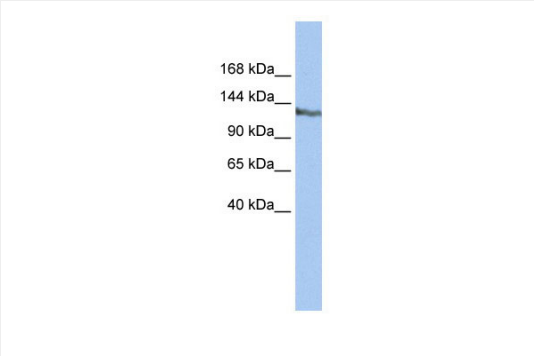
Isoform 1 is expressed ubiquitously. Isoform 3 is expressed mainly in skin and esophagus. Expressed in fibroblasts and keratinocytes (at protein level) (PubMed:29409814)

### 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 Cytometry](#)
- [Cell Culture](#)

### SMARCAD1 antibody - N-terminal region - Images



168 kDa  
144 kDa  
90 kDa  
65 kDa  
40 kDa

WB Suggested Anti-SMARCAD1 Antibody Titration: 0.2-1  $\mu$ g/ml

ELISA Titer: 1:62500

Positive Control: HepG2 cell lysate

### SMARCAD1 antibody - N-terminal region - References

Olsen, J.V., (2006) Cell 127 (3), 635-648 Reconstitution and Storage: For short term use, store at 2-8C up to 1 week. For long term storage, store at -20C in small aliquots to prevent freeze-thaw cycles.