

# SMARCAD1 antibody - N-terminal region

Rabbit Polyclonal Antibody

Catalog # AI10695

## Product Information

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<b>Application</b>	WB
<b>Primary Accession</b>	<a href="#">Q9H4L7</a>
<b>Other Accession</b>	<a href="#">NM_020159</a> , <a href="#">NP_064544</a>
<b>Reactivity</b>	Human, Rat, Rabbit, Pig, Dog, Horse, Bovine
<b>Predicted</b>	Human, Rat, Pig, Dog, Horse
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	117402

## Additional Information

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<b>Gene ID</b>	56916
<b>Alias Symbol</b> <b>Other Names</b>	DKFZp762K2015, ETL1, KIAA1122, HEL1, ADERM 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
<b>Format</b>	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
<b>Reconstitution &amp; Storage</b>	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.
<b>Precautions</b>	SMARCAD1 antibody - N-terminal region is for research use only and not for use in diagnostic or therapeutic procedures.

## Protein Information

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<b>Name</b>	SMARCAD1 ( <a href="#">HGNC:18398</a> )
<b>Function</b>	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.

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

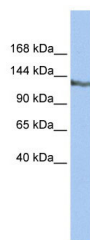
## References

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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.

## Images

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WB Suggested Anti-SMARCAD1 Antibody Titration: 0.2-1 µg/ml  
 ELISA Titer: 1:62500  
 Positive Control: HepG2 cell lysate

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