

# Product Datasheet

## SMARCAD1 Antibody - Azide and BSA Free H00056916-B01P

Unit Size: 0.05 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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### Publications: 2

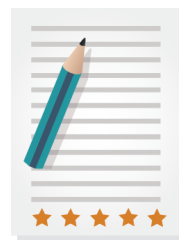
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**H00056916-B01P**

SMARCAD1 Antibody - Azide and BSA Free

| Product Information |                                                                                                                  |
|---------------------|------------------------------------------------------------------------------------------------------------------|
| Unit Size           | 0.05 mg                                                                                                          |
| Concentration       | Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services. |
| Storage             | Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.                                                     |
| Clonality           | Polyclonal                                                                                                       |
| Preservative        | No Preservative                                                                                                  |
| Isotype             | IgG                                                                                                              |
| Purity              | Protein A purified                                                                                               |
| Buffer              | PBS (pH 7.4)                                                                                                     |

| Product Description     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | Mouse                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene ID                 | 56916                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gene Symbol             | SMARCAD1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Species                 | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Specificity/Sensitivity | SMARCAD1 - SWI/SNF-related, matrix-associated actin-dependent regulator of chromatin, subfamily a, containing DEAD/H box 1,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Immunogen               | SMARCAD1 (AAH45534.1, 1 a.a. - 1028 a.a.) full-length human protein.<br>MNLFLNDRFRFEKRNKIEEAPATPQPSQPGPSSPISLSAEEENAEGEVSRANT<br>PDSDITEKTEDSSVPETPDNERKASISYFKNQRGIQYIDLSSDSEDVSPNCST<br>VQEKTFNKDTVIIVSEPSEDEESQGLPTMARRNDDISELEDLSELEDLKDACLQT<br>LKELFPQRSDNDLLKLIESTSTMDGAIAAALLMFGDAGGGPRKRKLSSSSEPYE<br>EDEFNDDQSIKKTRLDHGEESNESAESSNNWEKQESIVLKLQKEFPNFDKQEL<br>REVLKEHEWMYTEALESCLKVFAEDQDMQYASQSEVPNGKEVSSRSQNYPKN<br>ATKTKLKQKFSMKAQNGFNKKRKNVFNQKRVVEDSEYDSGSDVGSSLDDEDY<br>SSGEEVMEDGYKGKILHFLQDASIGELTLIPQCSQKKAQKITELRPFNSWEALFT<br>KMSKTNGLSIEDLIWHCKTLIQERDVVIRLMNKCEDISNKLTKQVTMLTGNGGG<br>WNIEQPSILNQSLSLKPYQKVGLNWLALVHKHGLNGILADEMGLGKTIQAI AFLA<br>YLYQEGNNGPHLIVVPASTIDNWLREVNLCPTLVLCY YGSQEERKQIRFNIH<br>SRYEDYNVIVTTYNCAISSDDRS LFRRLKLN YAFDEGHMLKNMGSI RYQHLM<br>TINANNRLLLTGTPVQNNLLELMSLLNFVMPHMFSSSTSEIRRMFSSKTKSADE<br>QSIYEKERIAHAKQIIKPFILRRVKEEV LKQLPPKKDRIELCAMSEKQEQLYLGLF<br>NRLKKSINN LVTEKNTEMCNVMMQLRKMANHPLLHRQYYTAEK LKEMSQLML<br>KEPTHCEANPD LIFEDMEVMTDFELHVLCKQYRHINNFQLDMDLILDSGKFRVL<br>GCILSELKQKGDRVVLFSQFTMMLDILEVLLKHHQHRYLR LDGKTQISERIHLID<br>EFNTDMDIFVLLSTKAGGLGINLTSANVVILHDIDCNPYNDKQAEDRCHRVGQ<br>TKEALVIKLISQGTIEESMLKINQQKLKLEQDMTTVDEGDEGSMPADIATLLKTS<br>MGL |
| Notes                   | This product is produced by and distributed for Abnova, a company based in Taiwan.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

| Product Application Details |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| Applications                | Western Blot, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP)       |
| Recommended Dilutions       | Western Blot 1:500, Immunocytochemistry/ Immunofluorescence, Chromatin Immunoprecipitation (ChIP) |

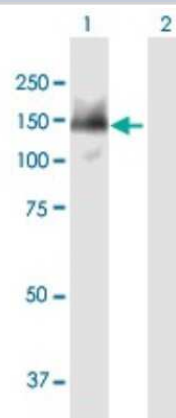


**Application Notes**

Antibody reactive against Recombinant Protein with GST tag on ELISA and Western Blot and also on transfected lysate in western blot. GST tag alone is used as a negative control. It has also been used for immunofluorescence.

**Images**

Western Blot: SMARCAD1 Antibody [H00056916-B01P] - Analysis of SMARCAD1 expression in transfected 293T cell line by SMARCAD1 polyclonal antibody. Lane 1: SMARCAD1 transfected lysate(113.08 KDa). Lane 2: Non-transfected lysate.



Immunocytochemistry/Immunofluorescence: SMARCAD1 Antibody [H00056916-B01P] - Analysis of purified antibody to SMARCAD1 on HeLa cell. (antibody concentration 10 ug/ml)

**Publications**

Chakraborty S, Singh M, Pandita R et al. Heat-induced SIRT1-mediated H4K16ac deacetylation impairs resection and SMARCAD1 recruitment to double strand breaks iScience 2022-03-01 [PMID: 35434547]

Chakraborty S, Pandita RK, Hambarde S et al. SMARCAD1 Phosphorylation and Ubiquitination Are Required for Resection during DNA Double-Strand Break Repair. iScience. 2018-04-27 [PMID: 29888761]



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### **Products Related to H00056916-B01P**

|                    |                                                         |
|--------------------|---------------------------------------------------------|
| HAF007             | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B            | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-97019-5mg     | Mouse IgG Isotype Control                               |
| H00056916-P01-10ug | Recombinant Human SMARCD1 GST (N-Term) Protein          |

### **Limitations**

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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