10320 Camino Santa Fe, Suite G
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DDA Antibody
Catalog # ASC11372

Specification

DDA Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q9BW61
Other Accession	NP_003253, 13129016
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Application Notes	**DDA1 antibody can be used for detection of DDA1 by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 5 µg/mL. For immunofluorescence start at 20 µg/mL.**

DDA Antibody - Additional Information

Gene ID	**79016**

Target/Specificity
DDA1;

Reconstitution & Storage
DDA antibody can be stored at 4℃ for three months and -20℃, stable for up to one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Precautions
DDA Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DDA Antibody - Protein Information

Name DDA1 {ECO:0000303|PubMed:17452440, ECO:0000312|HGNC:HGNC:28360}

Function
Functions as a component of numerous distinct DCX (DDB1-CUL4- X-box) E3 ubiquitin-protein ligase complexes which mediate the ubiquitination and subsequent proteasomal degradation of target proteins (PubMed:17452440, PubMed:28437394, PubMed:28302793, PubMed:31686031, PubMed:31819272). In the DCX complexes, acts as a scaffolding subunit required to stabilize the complex (PubMed:31686031, PubMed:31819272).

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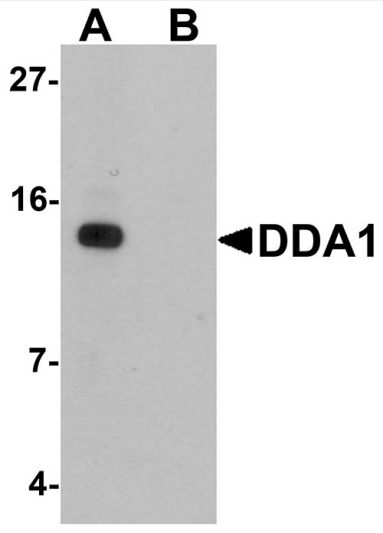
DDA Antibody - Protocols

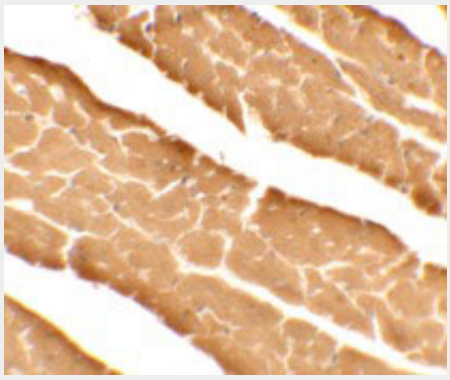
Provided below are standard protocols that you may find useful for product applications.

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

DDA Antibody - Images



Western blot analysis of DDA1 in mouse heart tissue lysate with DDA1 antibody at 1 µg/mL in (A) the absence and (B) the presence of blocking peptide



Immunohistochemistry of DDA1 in mouse heart tissue with DDA1 antibody at 5 µg/mL.

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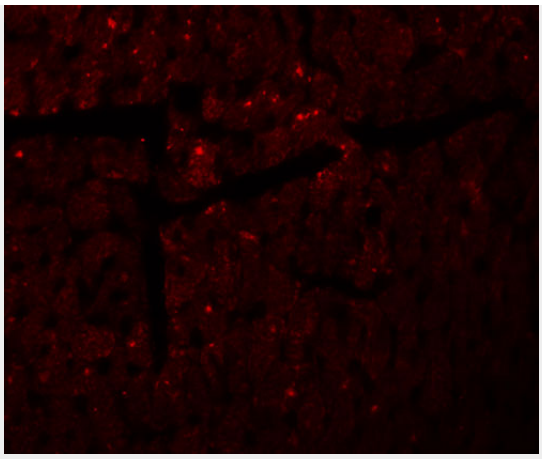

Immunofluorescence of DDA1 in mouse heart tissue with DDA1 antibody at 20 µg/mL.

DDA Antibody - Background

DDA Antibody: DDA1 (DET1 and DDB1 associated 1), along with DET1 and DDB1 and a member of the UBE2E group of canonical ubiquitin-conjugating enzymes, comprise DDD-E2 complexes, which interact with multiple ubiquitin E3 ligases. One of these E3 ligases is Cul4-containing E3 ligase complex CRL4. Cells depleted of DDA1 spontaneously accumulate double-stranded DNA breaks in a similar fashion as Cul4A-, Cul4B-, or WDR23-depleted cells, suggesting that DDA1 interacts with the CRL4 complex and may be involved in the ubiquitination and subsequent proteasomal degradation of target proteins.

DDA Antibody - References

Pick E, Lau O, Tsuge T, et al. Mammalian DET1 regulates Cul4A activity and forms stable complexes with E2 ubiquitin-conjugating enzymes. Mol. Cell. Biol. 2007; 27:4708-19.
Olma MH, Roy M, Le Bihan T, et al. An interaction network of the mammalian COP9 signalsome identifies Dda1 as a core subunit of multiple Cul4-based E3 ligases. J. Cell Sci. 2009; 122:1035-44