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DDX41 Antibody
Catalog # ASC11657

Specification

DDX41 Antibody - Product Information

Application	**WB, IHC, IF**
Primary Accession	Q9UJV9
Other Accession	NP_057306, 21071032
Reactivity	**Human, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**IgG**
Calculated MW	**Predicted: 68 kDa** **Observed: 70 kDa KDa**
Application Notes	**DDX41 antibody can be used for detection of DDX41 by Western blot at 1 - 2 µg/mL.**

DDX41 Antibody - Additional Information

Gene ID **51428**

Target/Specificity
DDX41; At least two isoforms of DDX41 are known to exist; this antibody will detect both isoforms.

Reconstitution & Storage
DDX41 antibody can be stored at 4℃ for three months and -20℃, stable for up to one year.

Precautions
DDX41 Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

DDX41 Antibody - Protein Information

Name DDX41

Synonyms ABS

Function
Probable ATP-dependent RNA helicase. Is required during post- transcriptional gene expression. May be involved in pre-mRNA splicing.

Cellular Location
Nucleus.

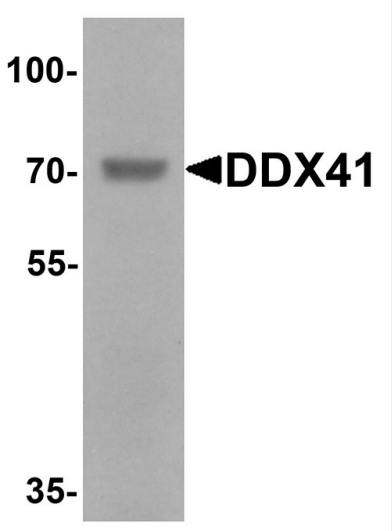
DDX41 Antibody - Protocols

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

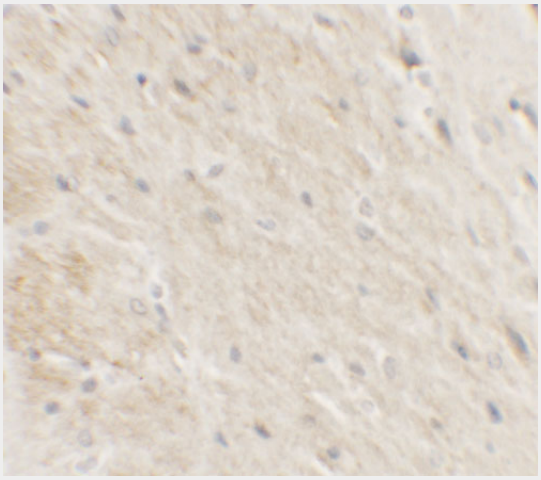
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- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

DDX41 Antibody - Images

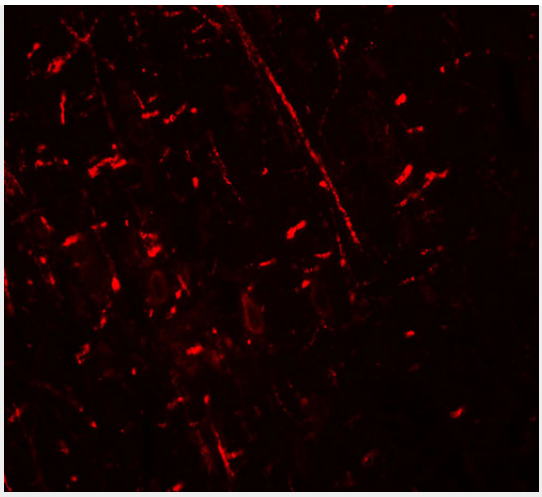


Western blot analysis of DDX41 in rat brain tissue lysate with DDX41 antibody at 1 µg/mL.



Immunohistochemistry of DDX41 in rat brain tissue with DDX41 antibody at 2.5 µg/ml.

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Immunofluorescence of DDX41 in rat brain tissue with DDX41 antibody at 20 µg/ml.

DDX41 Antibody - Background

DDX41 Antibody: DEAD box proteins, characterized by the conserved motif Asp-Glu-Ala-Asp, are putative RNA helicases implicated in several cellular processes involving modifications of RNA secondary structure such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. DDX41, also known as Abstrakt, interacts with and regulates the expression of sorting nexin-2 (SNX2), a protein involved in protein sorting in the trans-Golgi network. Recent evidence suggests that DDX41 also plays a role in the innate immune response by sensing intracellular viral DNA, triggering TBK1 and IRF3 activation, leading to a type I interferon immune response.

DDX41 Antibody - References

Cordin O, Banroques J, Tanner NK, et al. The DEAD-box protein family of RNA helicases. Gene 2006; 367:17-37.
Linder P. Dead-box proteins: a family affair—active and passive players in RNP-remodeling. Nucleic Acids Res. 2006; 34:4168-80.
Abdul-Ghani M, Hartman KL, and Ngsee JK. Abstrakt interacts with and regulates the expression of sorting nexin-2. J. Cell Physiol. 2005; 204:210-8.
Zhang Z, Yuan B, Bao M, et al. The helicase DDX41 senses intracellular DNA mediated by the adaptor STING in dendritic cells. Nat. Immunol. 2011; 12:959-65.