

**DDX41 Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP55524****Specification**

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**DDX41 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC, E
Primary Accession	<a href="#">O9UJV9</a>
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	69838

**DDX41 Polyclonal Antibody - Additional Information****Gene ID** 51428**Other Names**

Probable ATP-dependent RNA helicase DDX41, 3.6.4.13, DEAD box protein 41, DEAD box protein abstract homolog, DDX41, ABS

**Dilution**

WB~1:1000  
IHC-P~N/A  
IHC-F~N/A  
IF~1:50~200  
ICC~N/A  
E~N/A

**Format**

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

**Storage**

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

**DDX41 Polyclonal Antibody - Protein Information****Name** DDX41**Synonyms** ABS**Function**

Multifunctional protein that participates in many aspects of cellular RNA metabolism. Plays pivotal roles in innate immune sensing and hematopoietic homeostasis (PubMed:[34473945](http://www.uniprot.org/citations/34473945)). Recognizes foreign or self-nucleic acids generated during microbial infection, thereby initiating anti-pathogen responses (PubMed:[23222971](http://www.uniprot.org/citations/23222971)). Mechanistically, phosphorylation by BTK allows binding to

dsDNA leading to interaction with STING1 (PubMed:<a href="http://www.uniprot.org/citations/25704810" target="\_blank">25704810</a>). Modulates the homeostasis of dsDNA through its ATP-dependent DNA-unwinding activity and ATP-independent strand-annealing activity (PubMed:<a href="http://www.uniprot.org/citations/35613581" target="\_blank">35613581</a>). In turn, induces STING1- mediated type I interferon and cytokine responses to DNA and DNA viruses (PubMed:<a href="http://www.uniprot.org/citations/35613581" target="\_blank">35613581</a>). Selectively modulates the transcription of certain immunity-associated genes by regulating their alternative splicing (PubMed:<a href="http://www.uniprot.org/citations/33650667" target="\_blank">33650667</a>). Binds to RNA (R)-loops, structures consisting of DNA/RNA hybrids and a displaced strand of DNA that occur during transcription, and prevents their accumulation, thereby maintaining genome stability (PubMed:<a href="http://www.uniprot.org/citations/36229594" target="\_blank">36229594</a>). Also participates in pre-mRNA splicing, translational regulation and snoRNA processing, which is essential for ribosome biogenesis (PubMed:<a href="http://www.uniprot.org/citations/36229594" target="\_blank">36229594</a>, PubMed:<a href="http://www.uniprot.org/citations/36780110" target="\_blank">36780110</a>).

### Cellular Location

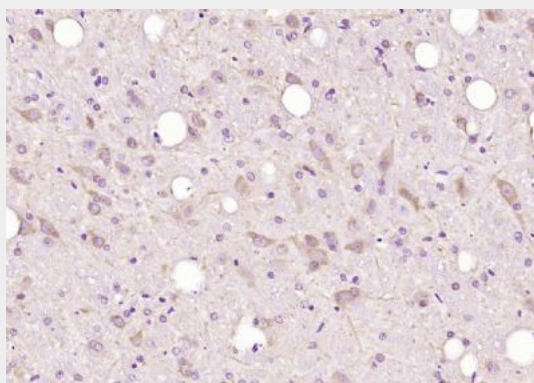
Nucleus. Cytoplasm Note=Predominantly present in the nucleus and traffics to the cytoplasm, specifically in the perinuclear region, after DNA stimulation.

### DDX41 Polyclonal Antibody - Protocols

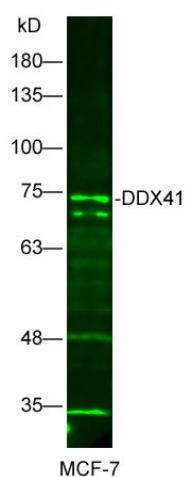
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### DDX41 Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (rat brain); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (DDX41) Polyclonal Antibody, Unconjugated (bs-14326R) at 1:200 overnight at 4°C, followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.



Sample: MCF-7 Cells Lysate at 25 ug  
Primary: Anti-DDX41(bs-143126R) at 1/300 dilution  
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution  
Predicted band size: 70kD  
Observed band size: 70kD