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DDX39 Antibody (Center Y265)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP7451d

Specification

DDX39 Antibody (Center Y265) - Product Information

Application	**WB,E**
Primary Accession	O00148
Other Accession	Q5U216, Q8VDW0
Reactivity	**Human**
Predicted	**Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**49130**
Antigen Region	**250-277**

DDX39 Antibody (Center Y265) - Additional Information

Gene ID 10212

Other Names
ATP-dependent RNA helicase DDX39A, DEAD box protein 39, Nuclear RNA helicase URH49, DDX39A, DDX39

Target/Specificity
This DDX39 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 250-277 amino acids from the Central region of human DDX39.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
DDX39 Antibody (Center Y265) is for research use only and not for use in diagnostic or therapeutic procedures.

DDX39 Antibody (Center Y265) - Protein Information

Name DDX39A

Synonyms DDX39

Function Helicase that plays an essential role in mRNA export and is involved in multiple steps in RNA metabolism including alternative splicing (PubMed:33941617, PubMed:38801080). Regulates nuclear mRNA export to the cytoplasm through association with ECD (PubMed:33941617). Also involved in spliceosomal uridine-rich small nuclear RNA (U snRNA) export by stimulating the RNA binding of adapter PHAX (PubMed:39011894). Plays a role in the negative regulation of type I IFN production by increasing the nuclear retention of antiviral transcripts and thus reducing their protein expression (PubMed:32393512). Independently of the interferon pathway, plays an antiviral role against alphaviruses by binding to a 5' conserved sequence element in the viral genomic RNA (PubMed:37949067).

Cellular Location
Nucleus. Cytoplasm. Note=Can translocate to the cytoplasm in the presence of MX1 (PubMed:21859714). Accumulates in the cytoplasm upon infection with chikungunya virus (PubMed:37949067)

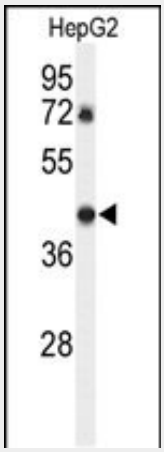
Tissue Location
Detected in testis, and at lower levels in brain, kidney, lung, thymus, spleen and salivary gland

DDX39 Antibody (Center Y265) - 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

DDX39 Antibody (Center Y265) - Images



Western blot analysis of DDX39 Antibody (Center Y265) (Cat. #AP7451d) in HepG2 cell line lysates (35ug/lane). DDX39 (arrow) was detected using the purified Pab.

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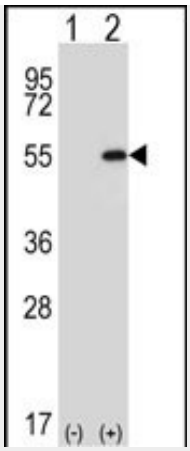

Western blot analysis of DDX39 (arrow) using rabbit polyclonal DDX39 Antibody (Center Y265) (Cat. #AP7451d). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected (Lane 2) with the DDX39 gene.

DDX39 Antibody (Center Y265) - Background

DDX39 is a member of the DEAD box protein family. These proteins are characterized by the conserved motif Asp-Glu-Ala-Asp (DEAD) and are putative RNA helicases. They are implicated in a number of cellular processes involving alteration of RNA secondary structure, such as translation initiation, nuclear and mitochondrial splicing, and ribosome and spliceosome assembly. Based on their distribution patterns, some members of the DEAD box protein family are believed to be involved in embryogenesis, spermatogenesis, and cellular growth and division.

DDX39 Antibody (Center Y265) - References

Pryor A., Tung L., Yang Z.Nucleic Acids Res. 32:1857-1865(2004)
Lehner B., Semple J.I., Brown S.E.Genomics 83:153-167(2004)