

# Product Datasheet

## DDX41 Antibody (2F4)

### H00051428-M01

Unit Size: 0.1 mg

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

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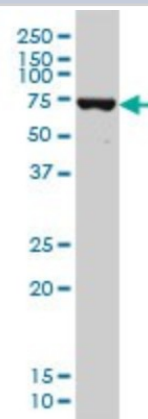


**H00051428-M01****DDX41 Antibody (2F4)**

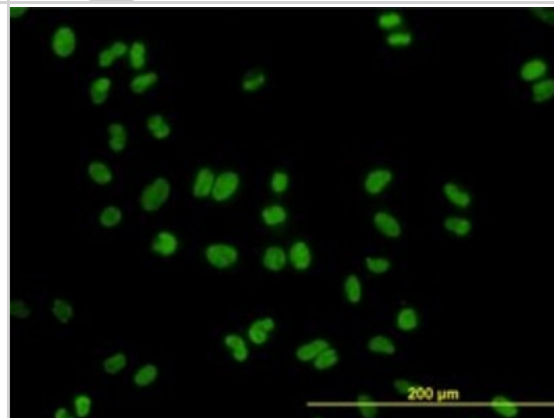
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	2F4
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Host</b>	Mouse
<b>Gene ID</b>	51428
<b>Gene Symbol</b>	DDX41
<b>Species</b>	Human, Mouse
<b>Reactivity Notes</b>	Mouse reactivity reported in scientific literature (PMID: 23142775)
<b>Specificity/Sensitivity</b>	DDX41 - DEAD (Asp-Glu-Ala-Asp) box polypeptide 41
<b>Immunogen</b>	DDX41 (NP_057306, 523 a.a. ~ 622 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. TGRSGNTGIATTFINKACDESVLMDLKALLLEAKQKVPPVLQVLHCGDESMLDI GGERGCAFCGGLGHRITDCPKLEAMQTKQVSNIGRKDYLAHSSMDF
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/Immunofluorescence
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA 1:100-1:2000, Immunocytochemistry/Immunofluorescence 1:10-1:2000
<b>Application Notes</b>	Antibody reactive against cell lysate, transfected lysate and recombinant protein for Western Blot. Has also been used for immunofluorescence and ELISA.

## Images

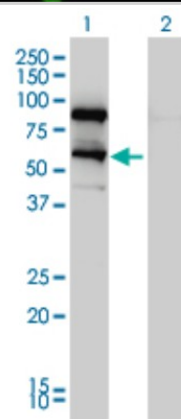
Western Blot: DDX41 Antibody (2F4) [H00051428-M01] - DDX41 monoclonal antibody (M01), clone 2F4 Analysis of DDX41 expression in HeLa S3 NE.



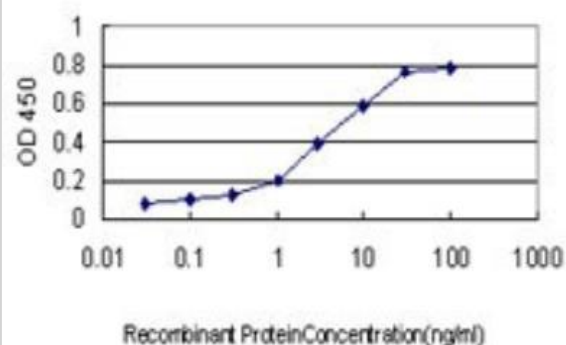
Immunocytochemistry/Immunofluorescence: DDX41 Antibody (2F4) [H00051428-M01] - Analysis of monoclonal antibody to DDX41 on HeLa cell. Antibody concentration 10 ug/ml.



Western Blot: DDX41 Antibody (2F4) [H00051428-M01] - Analysis of DDX41 expression in transfected 293T cell line by DDX41 monoclonal antibody (M01), clone 2F4. Lane 1: DDX41 transfected lysate (70 KDa). Lane 2: Non-transfected lysate.



ELISA: DDX41 Antibody (2F4) [H00051428-M01] - Detection limit for recombinant GST tagged DDX41 is approximately 0.3ng/ml as a capture antibody.



## Publications

Yoneyama-Hirozane M, Kondo M, Matsumoto SI et al. High-Throughput Screening to Identify Inhibitors of DEAD Box Helicase DDX41. *SLAS Discov* 2017 Apr 1 [PMID: 28426938]

Omura H, Oikawa D, Nakane T et al. Structural and Functional Analysis of DDX41: a bispecific immune receptor for DNA and cyclic dinucleotide. *Sci Rep* 2016 Oct 10 [PMID: 27721487]

Ma F, Li B, Liu SY et al. Positive Feedback Regulation of Type I IFN Production by the IFN-Inducible DNA Sensor cGAS. *J. Immunol.* 2015 Jan 21 [PMID: 25609843] (WB)

Parvatiyar K, Zhang Z, Teles RM et al. The helicase DDX41 recognizes the bacterial secondary messengers cyclic di-GMP and cyclic di-AMP to activate a type I interferon immune response *Nat Immunol* 2012 Dec [PMID: 23142775] (WB, ICC/IF, Mouse)

Zhang Z, Yuan B, Bao M et al. The helicase DDX41 senses intracellular DNA mediated by the adaptor STING in dendritic cells. *Nature Immunology.* 2011 Sep 4. [PMID: 21892174]





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### Products Related to H00051428-M01

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP (Horseradish Peroxidase)]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
H00051428-P01-2ug	Recombinant Human DDX41 GST (N-Term) Protein

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### 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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