

DDX41 (D3F1Z) Rabbit mAb



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Applications: W, IP, eCLIP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UIV9	Entrez-Gene Id: 51428
Product Usage Information		Application Western Blotting Immunoprecipitation eCLIP For more information a	about the RBP-eCL	IP service please visit Ecl	Dilution 1:1000 1:200 1:200 ipsebio.	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		DDX41 (D3F1Z) Rabbit mAb recognizes endogenous levels of total DDX41 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala98 of human DDX41 protein.				
Background		The DEAD box helicase DDX41 is an antiviral protein that senses cytosolic DNA and activates the signaling adaptor STING to induce type I interferon production (1). The recognition of bacterial dinucleotides by DDX41 also leads to STING-dependent type 1 interferon production (2). Research studies demonstrate that knockdown of DDX41 attenuates poly(dA:dT)-induced IFN-β production and cyclic GMP-AMP synthase (cGAS, MB21D1) induction (3). The DDX41 protein is thought to be an initial constitutively expressed DNA sensor that activates type I interferon production and leads to cGAS amplification of type I interferon production (3). DDX41 is negatively regulated by the E3 ligase TRIM21 (4). Both germline and somatic mutations in the corresponding <i>DDX41</i> gene are associated with myeloid neoplasms (5,6).				
Background Re	eferences	1. Zhang, Z. et al. (2011) <i>Nat Immunol</i> 12, 959-65. 2. Parvatiyar, K. et al. (2012) <i>Nat Immunol</i> 13, 1155-61. 3. Ma, F. et al. (2015) <i>J Immunol</i> 194, 1545-54. 4. Zhang, Z. et al. (2013) <i>Nat Immunol</i> 14, 172-8. 5. Ding, L. et al. (2012) <i>Nature</i> 481, 506-10. 6. Polprasert, C. et al. (2015) <i>Cancer Cell</i> 27, 658-70.				

Species Reactivity Species reactivity is determined by test

 $Species\ reactivity\ is\ determined\ by\ testing\ in\ at\ least\ one\ approved\ application\ (e.g.,\ western\ blot).$

Western Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat

dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key W: Western Blotting IP: Immunoprecipitation eCLIP: eCLIP

Cross-Reactivity Key H: Human M: Mouse R: Rat

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