5076 Store at -20C

DDX41 (D3F1Z) Rabbit mAb



Orders:

877-616-CELL (2355) orders@cellsignal.com

Support:

877-678-TECH (8324)

Web:

info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 75	Source/Isotype: Rabbit IgG	UniProt ID: #Q9UJV9	Entrez-Gene Id: 51428
Product Usage Information	Ар	plication		Dilution		
	We	stern Blotting		1:1000		
	Imr	nunoprecipitation			1:200	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sens	sitivity DD>	DDX41 (D3F1Z) Rabbit mAb recognizes endogenous levels of total DDX41 protein.				
Source / Purifica		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala98 of human DDX41 protein.				
Background	sign dinu stud cycl initia amp (4).	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 Refe	2. P 3. M 4. Z 5. D	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 testing in at least one approved application (e.g., western blot).

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

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

Applications Key WB: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Trademarks and **Patents**

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the **Limited Uses**

following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in

writing by a legally authorized representative of CST, are rejected and are of no force or effect.

DDX41 (D3F1Z) Rabbit mAb (#15076) Datasheet Without Images Cell Signaling Technology

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.