#25009

Phospho-SF3B1 (Thr313) (D8D8V) Rabbit



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

Applications: W	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 155	Source/Isotype: Rabbit IgG	UniProt ID: #075533	Entrez-Gene Id: 23451	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
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/Sens	itivity	Phospho-SF3B1 (Thr313) (D8D8V) Rabbit mAb recognizes endogenous levels of SF3B1 protein only when phosphorylated at Thr313.				1 protein only	
Species predicted to react Hamster, Xenopus, Zebrafish based on 100% sequence homology							
Source / Purifica	ation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr313 of human SF3B1 protein.					
Background		Splicing factor 3b subt (U2 snRNP) and plays and the joining of exor- sites are driven by seq recognized by the U1 s ensuring the anchorin sequencing studies ha various hematological syndromes (2,3,5,6). M components such as S proteins that are invol metabolism (2,3). Phosphorylation of SF mainly with chromatin inhibitor 5,6-dichloro- mRNA, resulting in the splicing (7).	unit 1 (SF3B1) is an an important role in ns to form mature in juences at the pre-r snRNP complex, wh ig of the spliceoson ave demonstrated a l malignancies such disregulation of pre SF3B1 is thought to ved in pathways su 3B1 at Thr313 is on n, where about 80% 1-β-d-ribofuranosyl e loss of phospho-S	integral component of the integral component of the mRNA (1-3). The assemb mRNA intron-exon splice ile U2 snRNP binds to the machinery at the splice in high incidence of soma as chronic lymphocytic -mRNA splicing arising f contribute to changes in ich as cell cycle progress ly found in catalytically a of pre-mRNA splicing of benzimidazole (DRB) lea F3B1 (Thr313), consisten	he U2 small nuclea NA that involves the ly and proper reco- sites. The 5' splice he 3' splice site (bra ce sites (3,4). Recen- tic mutations of <i>SF</i> leukemia and myel rom mutations of t in the expression pa- ion, cell death, and active spliceosomes ccurs. Treatment wi ds to a decreased s it with its association	r ribonucleoprotein e removal of introns gnition of splice donor site is nch point), t whole exome <i>3B1</i> in patients with odysplastic he spliceosome tterns of key cancer s and associates ith a transcription supply of pre- on with active	
Background Ref	erences	1. Jurica, M.S. and Moc 2. Cazzola, M. et al. (20 3. Bonnal, S. et al. (20 4. Gozani, O. et al. (199 5. Quesada, V. et al. (20 6. Baliakas, P. et al. (20 7. Girard, C. et al. (201	ore, M.J. (2003) <i>Mol</i> (2) <i>Blood</i> 121, 260 (2) <i>Nat Rev Drug Di</i> (38) <i>Mol Cell Biol</i> 18, (312) <i>Nat Genet</i> 44, (315) <i>Leukemia</i> 29, 3 (2) <i>Nat Commun</i> 3,	<i>Cell</i> 12, 5-14. -9. <i>iscov</i> 11, 847-59. 4752-60. 47-52. 29-36. 994.			
Species Reactivi	ty	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot Bu	/estern Blot Buffer IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				n 5% w/v nonfat		
Applications Key	y	W: Western Blotting					
Cross-Reactivity	' Key	H: Human M: Mouse					
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