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Rev	/15	1011	

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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 110	Source/Isotype: Rabbit	UniProt ID: #Q96MU7	Entrez-Gene Id: 91746		
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 and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.						
Specificity/Sens	itivity	YTHDC1 (D10) Antiboo	YTHDC1 (D10) Antibody recognizes endogenous levels of total YTHDC1 protein.					
Species predicte based on 100% s homology	d to react sequence	Bovine, Pig, Horse						
Source / Purifica	ntion	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asp10 of human YTHDC1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		YTH domain-containin belong to a family of p methyladenosine(m64 modification that is pr regulating mRNA splic regulates alternative s YTHDC1 promotes exc m6A, while repressing expression of YTHDC1 vascular endothelial g increased EC cell invas and may play a role in	g protein 1 (YTHDC proteins that bind to scontaining RNAs; esent at internal si sing, processing, ar plicing by function pronclusion by recr exon-skipping by l promotes maligna rowth factor A (VEC sion (4). YTHDC2 fun spermatogenesis (1) and YTH domain-com o RNA. YTHDC1 and YTH binding is mediated thr tes of mRNAs and some d stability. YTHDC1, also ing as a key regulator of uiting pre-mRNA splicing olocking SRSF10 binding nt endometrial carcinon GF-A), resulting in an incr factions to enhance the t 5).	taining protein 2 (Y DC2 both recognize ough the YTH doma non-coding RNAs a known as splicing exon-inclusion or e g factor SRSF3 to re to these same regi na (EC) through alte ease in VEGF-165 is ranslation efficiency	THDC2) both e and bind to N6- ains (1-3). m6A is a nd plays a role in factor YT521, exon-skipping. gions containing ons (2). Increased rnative splicing of oform and y of target mRNAs		
Background Ref	erences	1. Xu, C. et al. (2015) <i>J</i> 2. Xiao, W. et al. (2016) 3. Xu, C. et al. (2014) A 4. Zhang, B. et al. (201 5. Hsu, P.J. et al. (2017)	<i>Biol Chem</i> 290, 249) <i>Mol Cell</i> 61, 507-1 <i>lat Chem Biol</i> 10, 92 5) <i>Tumor Biol</i> 37, 1) <i>Cell Res</i> 27, 1115-2	02-13. 9. 27-9. 5543-9. 27.				
Species Reactivi	ty	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Bu	ffer	IMPORTANT: For west dry milk, 1X TBS, 0.1%	ern blots, incubate Tween® 20 at 4°C	s, incubate membrane with diluted primary antibody in 5% w/v nonfat ୬ 20 at 4°C with gentle shaking, overnight.				
Applications Key	/	W: Western Blotting						
Cross-Reactivity	Key	H: Human M: Mouse R: Rat Mk: Monkey						
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