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AUF1/hnRNP D (D6O4F) Rabbit



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For Research Use Only.	Not for Use in	Diagnostic Proce	edures.				
Applications: WB, IP, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 37-48	Source/Isotype: Rabbit IgG	UniProt ID: #Q14103	Entrez-Gene Id: 3184	
Product Usage Information	Ар	plication			Γ	Dilution	
IIIIOIIIIauoii	We	Western Blotting			1:1000		
	Imr	Immunoprecipitation			1:50		
	Imr	Immunohistochemistry (Paraffin)			1:50		
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 / Sensit	ivity AUF	AUF1/hnRNP D (D6O4F) Rabbit mAb recognizes endogenous levels of total AUF1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the carboxy terminus of human AUF1 protein.					
Background	(hnF has AUF is al com cata norn p40, isofo	AU-rich element RNA binding protein 1 (AUF1) is also known as heterogeneous ribonucleoprotein D (hnRNP D). AUF1 binds to the AU rich element (ARE) of target mRNA and regulates mRNA decay (1,2). It has a broad range of target genes including IL-1, IL-2, IL-3, Myc, TNF- α , and cyclin D1 (2). Binding of AUF1 to Myc mRNA also affects translation of Myc (3). Recent studies have provided evidence that AUF1 is also involved in the regulation of transcription. AUF1 binds to the promoters of various genes including complement receptor 2 (4), enkephalin (5), and α -fetoprotein (6). AUF1 also binds to the telomerase catalytic subunit Tert promoter and the G-rich telomeric repeat, thus regulating telomere maintenance and normal aging (7,8). AUF1 has four isoforms produced by alternative splicing of a single transcript: p37, p40, p42, and p45 (9,10). All AUF1 isoforms shuttle between the nucleus and cytoplasm (11, 12). These isoforms have distinct localization and bind to different target mRNAs that contribute to the diversity of AUF1 function (2).					
Background Refere	2. G 3. Li 4. To 5. D 6. Ji	ao, B. et al. (2007) Dinay, M. et al. (2006) Obi, A. et al. (2006) ao, R. et al. (2006)	rewer, G. (2010) Nat Struct Mol Bi 0) Biochem J 348 J Biol Chem 281 J Cell Biochem 9	Wiley Interdiscip Rev R fol 14, 511-8. 3 Pt 1, 151-8. , 28889-900.			

Species Reactivity

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

WB: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin)

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

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Limited Uses

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