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## Rev-Erbα (E1Y6D) Rabbit mAb Of Point 3 Trask Lane | D



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

<b>Applications:</b> W, IP, ChIP	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 78	<b>Source/Isotype:</b> Rabbit IgG	<b>UniProt ID:</b> #P20393	Entrez-Gene Id: 9572		
Product Usage Information		For optimal ChIP results, use 5 μl of antibody and 10 μg of chromatin (approximately 4 x 10 <sup>6</sup> cells) per IP. This antibody has been validated using SimpleChIP <sup>®</sup> Enzymatic Chromatin IP Kits.						
		<b>Application</b> Western Blotting Immunoprecipitation Chromatin IP			<b>Dilution</b> 1:1000 1:100 1:100			
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		Rev-Erbα (E1Y6D) Rabbit mAb recognizes endogenous levels of total Rev-erbα protein. This antibody may cross-react with an unidentified protein of 60 kDa.						
Source / Purifie	cation	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser67 of human Rev-erbɑ protein.						
BackgroundReverse orientation c-erbA gene α (Rev-erbα, EAR-1, or NR1D1) is a widely expressed in a muscle, brain and liver, and regulates cellular proliferation and differentiation. E during differentiation in adipocytes and ectopic expression of Rev-erbα potentia differentiation of 3T3-L1 cells (2). In addition, expression oscillates with circadiar and Rev-erbα regulates expression of BMAL1, ApoA-I and ApoC-III, all key regula rhythm (3-7). Phosphorylation of Rev-erbα Ser55 and Ser59 by GSK-3β appears to protein levels and is important for synchronizing and maintaining the circadian regulates inflammation by targeting the NF-κB responsive genes IL-6 and COX-2 activation function 2 domain required for ligand-dependent activation of transce members of the nuclear receptor family; thus it behaves as a constitutive repress the nuclear receptor co-repressor (N-CoR)/HDAC3 complex to target genes to re				expressed in adipo fferentiation. Expre v-erbα potentiates t s with circadian rhy II, all key regulators GK-3β appears to sta g the circadian clock IL-6 and COX-2 (9). ation of transcriptic stitutive repressor	se tissue, skeletal ssion increases the adipocyte thm in liver cells of circadian abilize Rev-erba ( 8). Rev-erba also Rev-erba lacks the on by other protein, recruiting			
2. Chawla, A. and Lazar, M.A. ( 3. Torra, I.P. et al. (2000) <i>Endo</i> 4. Preitner, N. et al. (2002) <i>Cell</i> 5. Vu-Dac, N. et al. (1998) <i>J Bio</i> 6. Coste, H. and Rodríguez, J.C 7. Raspé, E. et al. (2002) <i>J Lipic</i> 8. Yin, L. et al. (2006) <i>Science</i> 3 9. Migita, H. et al. (2004) <i>FEBS</i>				Cell 110, 251-60. Biol Chem 273, 25713-20. J.C. (2002) J Biol Chem 277, 27120-9. pid Res 43, 2172-9. ce 311, 1002-5.				
Species Reactiv	vity	Species reactivity is det	termined by testing	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot B	Buffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				n 5% w/v BSA, 1X		
Applications K	ey	W: Western Blotting IP: Immunoprecipitation ChIP: Chromatin IP						
Cross-Reactivit	ty Key	H: Human M: Mouse R: Rat						
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