Store at

3418

#

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



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: W, IP, ChIP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 78	Source/Isotype: Rabbit IgG	UniProt ID: #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 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.						
		Application Western Blotting Immunoprecipitation Chromatin IP			Dilution 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						
Trademarks and PatentsCell Signaling Technology is a trademark of Cell Signaling Technology, Inc.SimpleChIP is a registered trademark of Cell Signaling Technology, Inc.								

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.

Limited Uses

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

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.