#

RARγ1 (D3A4) XP® Rabbit mAb 5000 **1000 1000** <



Orders:877-616-CELL (2355)
orders@cellsignal.comSupport: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, IHC-P, IF-IC, FC-FP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 58	Source/Isotype: Rabbit IgG	UniProt ID: #P13631	Entrez-Gene Id: 5916	
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemist Immunofluorescence Flow Cytometry (Fixed	ry (Paraffin) (Immunocytochem	istry)	1:40	00	
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.					
		For a carrier free (BSA	and azide free) ver	sion of this product see	product #82517.		
Specificity/Sensitivity		RARγ1 (D3A4) XP [®] Rabbit mAb recognizes endogenous levels of total RARγ1 protein. Based upon sequence alignment, this antibody is not predicted to cross-react with RARγ2. This antibody does not cross-react with either RARα or RARβ.					
Species predicted to react based on 100% sequence homology		Rat, Hamster, Bovine,	Dog				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human RARγ1 protein.					
Background		Nuclear retinoic acid (RA) receptors (RARs) consist of three subtypes encoded by separate genes: α (NR1B1), β (NR1B2), and γ (NR1B3). For each subtype, there are at least two isoforms, which are generated by differential promoter usage and alternative splicing and differ only in their N-terminal regions. Retinoids, which are metabolites of vitamin A, serve as ligands for RARs (1). RARs function as ligand-dependent transcriptional regulators and are found to be heterodimerized with retinoid X receptors (RXRs). These transcriptionally active dimers regulate the expression of genes involved in cellular differentiation, proliferation, and apoptosis (2,3). Consequently, RARs play critical roles in a variety of biological processes, including development, reproduction, immunity, and organogenesis (4-6). RAR mutations, fusion proteins, altered expression levels, or aberrant post-translational modifications result in multiple diseases due to altered RAR function and disruption of homeostasis.					
		expression pattern (7) study identified a role subtype in human and high level of RARγ exp in a transcriptional pr skin appendages. The	 The hematopoieti for RARγ in hemato d mouse epidermis, pression in the skin, ogram that governs transcriptional acti 	RARa subtype, RARy dis c system expresses sign opoietic stem cell mainte representing 90% of the it has been suggested t s maintenance and differ vity of RARy is under str d proteasomal degradar	ificant levels of RAF enance (8). RARγ is e RARs in this tissue hat this nuclear rec rentiation of norma ingent control, in p	(y, and a recent the predominant e (9-11). Given the eptor participates Il epidermis and	
Background Re	eferences	2. Delacroix, L. et al. (2 3. Eifert, C. et al. (2006 4. Mark, M. et al. (2006	2010) <i>Mol Cell Biol</i> 3 5) <i>Mol Reprod Dev</i> 7 6) <i>Annu Rev Pharm</i> d Dollé, P. (2008) <i>Na</i> 9) <i>Nucl Recept Sign</i> <i>I Recept Signal</i> 7, e0 006) <i>J Exp Med</i> 203, 94) <i>J Biol Chem</i> 269	3, 796-824. <i>acol Toxicol</i> 46, 451-80. <i>at Rev Genet</i> 9, 541-53. <i>al</i> 7, e002. 006. 1283-93. , 20629-35.	2005.		

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	W: Western Blotting IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized)			
Cross-Reactivity Key	H: Human M: Mouse			
Trademarks and Patents	Cell Signaling Technology is a 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 purpose, 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 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.			