δ DNA Polymerase γ (D1Y6R) Rabbit mAb





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	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 140	Source/Isotype: Rabbit IgG	UniProt ID: #P54098	Entrez-Gene Id 5428	
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50		
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/Sensiti	ivity	DNA Polymerase γ (D1Y6R) Rabbit mAb recognizes endogenous levels of total DNA polymerase γ protein.				oolymerase γ	
Source / Purificat	ion	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro560 of human DNA polymerase γ protein.					
Background		mitochondrial genome a holoenzyme complex processivity (1). In addi proofreading and 5'-de repair (BER). The rate a enhanced by the pol yE associated with several myocerebrohepatopatl	replication in euk with a 55 kDa acc tion to polymeras oxyribonucleic ph t which the cataly accessory subun inherited neurop hy spectrum disor	a nuclear encoded prote aryotic cells. The 140 kD essory protein (POLG2, j e activity, polymerase y o osphate lyase activity th ic subunit recognizes da it (2). Mutations in the co athies including progres ders and Alpers-Huttenlo responding <i>POLG</i> gene	a polymerase γ cata pol γB) dimer, which contains 3'-5' exonu at functions in DNA amaged DNA during prresponding <i>POLG</i> sive external ophth ocher syndrome (3,	alytic subunit forms in confers iclease activity for i base excision g DNA repair is gene are ialmoplegia, 4). Research	
Background Refe	rences	1. Kaguni, L.S. (2004) <i>Annu Rev Biochem</i> 73, 293-320. 2. Pinz, K.G. and Bogenhagen, D.F. (2006) <i>DNA Repair (Amst</i>) 5, 121-8. 3. Stumpf, J.D. et al. (2013) <i>Cold Spring Harb Perspect Biol</i> 5, a011395. 4. Finsterer, J. (2011) <i>J Neurol Sci</i> 304, 9-16. 5. Singh, K.K. et al. (2009) <i>J Hum Genet</i> 54, 516-24.					
Species Reactivity	,	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot Buff	er	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 Key		W: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity K	(ey	H: Human Mk: Monkey	,				
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.						
	SignalSilence 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		the following terms ap terms and conditions t	ply to Products pro hat are in addition	a writing signed by a leg ovided by CST, its affiliate to, or different from, th y authorized representa	es or its distributors ose contained here	s. Any Customer's in, unless	

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.