mAb

#13848 Store at -20C

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 Onl	y. Not for Use in Dia	gnostic Procedures.

DNA Polymerase η (E1I7T) Rabbit

Applications: F WB	Reactivity: H	: Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #Q9Y253	Entrez-Gene Id: 5429	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
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. <i>Do not aliquot the antibody.</i>					
Specificity / Sensitivi	r I	DNA Polymerase η (E1I7T) Rabbit mAb recognizes endogenous levels of total POLH protein. The antibody recognizes a 40 kDa background band of unknown origin. In some cell lines, the antibody recognizes a 60 kDa band of unknown origin. This band does not correspond to the expected size of truncated POLH in GM03617 cells.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro309 of human POLH protein.					
Background	ז ז ן ן)	A total of fifteen mammalian DNA polymerase enzymes catalyze the synthesis of nascent DNA during DNA replication and repair (1). DNA polymerase eta (POL η , POLH, Rad30) is one of a specialized type of DNA polymerases that function in DNA repair and translesion synthesis (TLS). POLH can accommodate and read through bulky DNA lesions such as pyrimidine dimers, which allows for continued DNA synthesis past lesions and limited stalling of replication forks (2,3). Damage inducing conditions, such as exposure to UV light or cisplatin, recruit POLH to sites of bulky DNA lesions where the polymerase interacts with PCNA (4,5). Mutations in the human <i>POLH</i> gene can result in a form of xeroderma pigmentosum (XPV), an autosomal recessive disorder characterized by hypersensitivity to light and susceptibility to skin cancer (6).					
Background Referen	2 3 2 5	1. Lange, S.S. et al. (201 2. Cruet-Hennequart, S. (3. Johnson, R.E. et al. (2 4. Albertella, M.R. et al. (5. Haracska, L. et al. (20) 6. Masutani, C. et al. (19)	et al. (2010) Sul 000) J Biol Che 2005) Cancer R 01) Mol Cell Bio	bcell Biochem 50, 189-2 m 275, 7447-50. Pes 65, 9799-806. I 21, 7199-206.	09.		
Species Reactivity	S	pecies reactivity is deter	mined by testing	g in at least one approve	ed application (e.g., we	estern 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	١	WB: Western Blotting					
Cross-Reactivity Key	Х	 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 					
Trademarks and Patents	X A	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	fc Ci	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.					

DNA Polymerase η (E117T) Rabbit mAb (#13848) Datasheet Without Images Cell Signaling Technology

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.