at -	SirT7 (D3K5A) Rabbit mAb		Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
00		Support:	877-678-TECH (8324)	
#5360		Web:	info@cellsignal.com cellsignal.com	
#		3 Trask Lane   Danvers	Massachusetts 01923 USA	

For Research Use Only	. Not for Use in Diagnostic P	rocedures
FOI INESCAIGH USE OINS	Not for ose in Diagnostic F	occuures.

For Research Use Only.	Not for Use in	n Diagnostic Proc	edures.			
Applications: WB, IP	<b>Reactivity:</b> H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 45	Source/Isotype: Rabbit IgG	UniProt ID: #Q9NRC8	Entrez-Gene Id: 51547
Product Usage Information	W	pplication lestern Blotting nmunoprecipitation			<b>Dilution</b> 1:1000 1:200	
Storage				7.5), 150 mM NaCl, 100 o not aliquot the antibody		erol and less than
Specificity / Sensitivity		SirT7 (D3K5A) Rabbit mAb recognizes endogenous levels of total SirT7 protein. This antibody does not cross-react with other sirtuin proteins.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the amino terminus of human SirT7 protein.				
Background	nic dea Sir cel pro chr dea Inte in t ma gro for for for 170	otinamide adenine di acetylases. The first of 2, which is involved i I aging (1). SirT7, a r ominently expressed romatin by sequence acetylate Lys18 of his erestingly, overexpres enotype that has bee the research literature intenance of several owth, growth in low se the E1A-induced dee m contact inhibition ( gulator of cellular tran q25.3, a region that is	inucleotide (NAD discovered and b n silencing of ma nammalian homo in hematopoietic -specific DNA bir stone H3 at gene ssion of SirT7 inc n associated witt e (3-5). Furtherm transformed phe erum conditions, crease in histone 3). Taken togetho sformation. Reso	family of genes is a high )-dependent protein dea best characterized of the ting type loci, telomerer olog of Sir2, is localized cells, especially myeloid ding transcription factor promoters and facilitate duces a global decrease in poor prognosis in pros ore, studies have also s enotypes of cancer cells, and tumor formation in a H3 Lys18 acetylation, in er, these findings strong earch has shown that the din acute leukemia an multiple types of cancer	acetylases, also known se genes is <i>Saccharor</i> maintenance, DNA dar primarily in the nucleol d progenitor cells (2). S rs such as Elk-4, where e transcriptional repres in histone H3 Lys18 a tate, lung, kidney, and hown that SirT7 is req , including anchorage-i kenograft assays (3). S induction of cell-cycle e ly suggest that SirT7 is e SirT7 gene is located d lymphoma (2), and S	a as Class III histone myces cerevisiae mage response, and lus and is most SirT7 is recruited to e it functions to sion (3). acetylation levels, a pancreatic cancers uired for the independent cell SirT7 is also required entry, and escape a an important d on chromosome
Background Refer	2. \ 3. F 4. f 5. S 6. A 7. c	Guarente, L. (1999) / Voelter-Mahlknecht, S Barber, M.F. et al. (20 Manuyakorn, A. et al. Seligson, D.B. et al. ( Ashraf, N. et al. (2006) de Nigris, F. et al. (20 Frye, R. (2002) Br J (	S. et al. (2006) <i>Ir.</i> 012) <i>Nature</i> 487, (2010) <i>J Clin Or</i> (2009) <i>Am J Patr</i> 6) <i>Br J Cancer</i> 99 02) <i>Br J Cancer</i>	t J Oncol 28, 899-908. 114-8. ncol 28, 1358-65. nol 174, 1619-28. 5, 1056-61. 86, 917-23.		
Species Reactivity Western Blot Buffer		cies reactivity is dete	ermined by testin	g in at least one approve	ed application (e.g., we	estern blot).
		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.				
Applications Key Cross-Reactivity K		3: Western Blotting IF	<b>?:</b> Immunoprecip	itation		

1/1/24, 8:19 AM	<ul> <li>SirT7 (D3K5A) Rabbit mAb (#5360) Datasheet Without Images Cell Signaling Technology</li> <li>H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster</li> <li>X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse</li> <li>GP: Guinea Pig Rab: rabbit All: all species expected</li> </ul>
Trademarks and Patents	Cell Signaling Technology is a 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 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.