e at -20C	TET2 Antibody	HE .	Cell Signaling TECHNOLOGY®
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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#450		Web:	info@cellsignal.com cellsignal.com
		3 Trask Lane Danve	rs Massachusetts 01923 USA

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 280	Source: Rabbit	UniProt ID: #Q6N021	Entrez-Gene Id: 54790
Product Usage Information	Ap We Imi	plication estern Blotting munoprecipitation			Dilution 1:1000 1:50	
Storage	Sup 20°0	plied in 10 mM sodiu C. Do not aliquot the	um HEPES (pH 7.5 antibody.	5), 150 mM NaCl, 10	00 μg/ml BSA and 50% g	lycerol. Store at –
Specificity / Sensitiv	vity TET unk	2 Antibody recogniz nown identity at 100	es endogenous lev , 130, and 160 kDa	vels of total TET2 pr a.	otein. This antibody dete	ects bands of
Source / Purification	n Poly resi affir	clonal antibodies and dues surrounding Gl nity chromatography.	e produced by imn y173 of human TE	nunizing animals wit T2 protein. Antibodi	h a synthetic peptide co es are purified by proteir	rresponding to A and peptide
Background	Met regu a re mai repl TET (5). carb cyto TET meg 9). I solio	hylation of DNA at cy pressive epigenetic intained by DNMT1 (ication. However, su '2, and TET3 can ca Additionally, TET pro poxylcytosine (5-caC psine oxidation to the '2 is the most freque gakaryocytic, and/or t is also mutated in c d tumors such as pro	vtosine residues is ession, genomic im mark established c 3, 4). 5-methylcyto bsequent studies h talyze the oxidation oteins can further c), both of which are base excision rep ntly mutated gene erythroid cell linea diffuse large B-cell ostate cancer, mela	a heritable, epigena printing, and mamm le novo by two enzy sine was originally t nave shown that Ter n of methylated cyto ixidize 5-hmC to for e excised by thymin air pathway and sup in myeloid dysplast ges, of which 30% p lymphoma (10). TE anoma, and oral squ	etic modification that is c lalian development (1,2) mes, DNMT3a and DNM hought to be passively o l-Eleven Translocation (1 sine to 5-hydroxymethyl m 5-formylcytosine (5-fC e-DNA glycosylase (TDC porting active cytosine o ic syndrome (MDS), a dy progress to acute myeloi T2 protein expression is amous cell carcinoma (1	ritical for proper . 5-methylcytosine is AT3b, and is lepleted during DNA FET) proteins TET1, cytosine (5-hmC) cytosine (5-hmC) c) and 5- G), effectively linking demethylation (6,7). /splasia of myeloid, d leukemia (AML) (8, often reduced in L1-13).
Background Refere	nces 1. H 2. Ti 3. O 4. Li 5. Ti 6. H 7. Iti 8. Li 9. Y 10. A 11. N 12. Li 13. Ji	lermann, A. et al. (20 urek-Plewa, J. and J kano, M. et al. (1992) ahiliani, M. et al. (200 le, Y.F. et al. (2011) S o, S. et al. (2011) Sc angemeijer, S.M. et a amazaki, J. et al. (2013) ickerson, M.L. et al. ian, C.G. et al. (2013) äwert, F. et al. (2013)	 104) Cell Mol Life S agodziński, P.P. (2 b) Cell 99, 247-57. l' 69, 915-26. D9) Science 333, 1303-3 ience 333, 1300-3 al. (2009) Nat Gen D12) Epigenetics 7, c) Haematologica 98 (2013) Hum Mutat Cell 150, 1135-4 Anticancer Res 3 	Sci 61, 2571-87. 005) Cell Mol Biol L 30-5. -7. et 41, 838-42. 201-7. 8, 1912-20. -34, 1231-41. 6. 3, 4325-8.	ett 10, 631-47.	
Species Reactivity	Spec	cies reactivity is dete	rmined by testing i	n at least one appro	ved application (e.g., we	estern blot).
Western Blot Buffer	· IMP0 0.1%	DRTANT: For wester Tween® 20 at 4°C v	n blots, incubate m with gentle shaking	embrane with dilute g, overnight.	d primary antibody in 59	% w/v BSA, 1X TBS,
Applications Key	WB	: Western Blotting IP	: Immunoprecipita	tion		
Cross-Reactivity Ke	ey.					

1/1/24, 12:42 PM	TET2 Antibody (#45010) Datasheet Without Images Cell Signaling Technology				
	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				
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