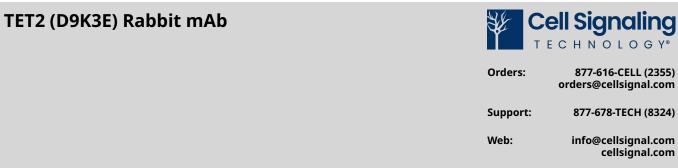
-20C

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

Applications: W, ChIP, ChIP-seq	Reactivity: M	Sensitivity: Endogenous	MW (kDa): 280	Source/Isotype: Rabbit IgG	UniProt ID: #Q4JK59	Entrez-Gene Id: 214133
Product Usage Information		For optimal ChIP and ChIP-seq results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.				
		Application Western Blotting Chromatin IP Chromatin IP-seq			Dilution 1:1000 1:50 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/Sensitivity		TET2 (D9K3E) Rabbit mAb recognizes endogenous levels of total mouse TET2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with recombinant protein surrounding Ala1580 of mouse TET2 protein.				
Background		regulation of gene exp methylcytosine is a re DNMT3b, and is main depleted during DNA Translocation (TET) pro 5-hydroxymethylcytos formylcytosine (5-fC) a glycosylase (TDG), effe supporting active cyto dysplastic syndrome (which 30% progress to	pression, genomic i pressive epigenetic tained by DNMT1 (2 replication. Howeve oteins TET1, TET2, a sine (5-hmC) (5). Add and 5-carboxylcytos ectively linking cyto psine demethylatior MDS), a dysplasia o p acute myeloid leu protein expression	is a heritable, epigenetic mprinting, and mamma mark established de no 8, 4). 5-methylcytosine w er, subsequent studies ha ind TET3 can catalyze the ditionally, TET proteins ca ine (5-caC), both of whice sine oxidation to the bas n (6,7). TET2 is the most ff f myeloid, megakaryocy kemia (AML) (8, 9). It is a is often reduced in solid noma (11-13).	lian development (1 vo by two enzymes, as originally though ave shown that Ten- e oxidation of meth an further oxidize 5 th are excised by thy se excision repair pa frequently mutated tic, and/or erythroid also mutated in diffu	,2). 5- DNMT3a and it to be passively Eleven ylated cytosine to hmC to form 5- mine-DNA ithway and gene in myeloid cell lineages, of use large B-cell
Background Re	ferences	1. Hermann, A. et al. (2 2. Turek-Plewa, J. and 3. Okano, M. et al. (1994) 4. Li, E. et al. (1992) <i>Ce</i> 5. Tahiliani, M. et al. (2 6. He, Y.F. et al. (2011) 7. Ito, S. et al. (2011) <i>S</i> 8. Langemeijer, S.M. et 9. Yamazaki, J. et al. (2 10. Asmar, F. et al. (2011) 11. Nickerson, M.L. et 12. Lian, C.G. et al. (2013) 13. Jäwert, F. et al. (2013)	Jagodziński, P.P. (20 99) <i>Cell</i> 99, 247-57. 2009) <i>Science</i> 324, 9 <i>Science</i> 333, 1303- <i>Science</i> 333, 1300-3. t al. (2009) <i>Nat Gen</i> 012) <i>Epigenetics</i> 7, 13) <i>Haematologica</i> al. (2013) <i>Hum Mu</i> 12) <i>Cell</i> 150, 1135-2	05) <i>Cell Mol Biol Lett</i> 10, 30-5. 7. <i>et</i> 41, 838-42. 201-7. 98, 1912-20. <i>tat</i> 34, 1231-41. 16.	631-47.	
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Buffer		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		W: Western Blotting ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq				
Cross-Reactivity Key		M: Mouse				

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