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

Applications: W, IP, IHC-P	<b>Reactivity:</b> H M R Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 180	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #O15550	Entrez-Gene Id: 7403
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation Immunohistochemistr	y (Paraffin)		<b>Dilution</b> 1:1000 1:200 1:200 - 1:8	300
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less th 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than
Specificity/Sens	itivity	UTX (D3Q1I) Rabbit m/ cross-react with UTY pi 70 kDa.	(D3Q1I) Rabbit mAb recognizes endogenous levels of total UTX protein. This antibody does not s-react with UTY protein. This antibody also cross-reacts with unidentified proteins of 60 kDa and Da.			
Source / Purific	ation	Monoclonal antibody is produced by immunizing animals with recombinant protein surrounding Ala490 of human UTX protein.				
Background		The methylation state active and inactive reg development (1,2). Jurn histone demethylase p tri-methyl lysine residu homology, both human separate families (3). T chromosome tetratrico tetratricopeptide repea proteins has been show escapes X inactivation expression during deve responding to various (7,8). Both UTX and JMJ have been shown to m the male mouse (10).	of lysine residues in ions of the genome nonji C (JmjC) doma proteins (3). The Jmj ues via an oxidative ns and mice contai the three members oppetide repeat pro- tat protein (UTY), an wn to demethylate in females and is u elopment (4-6). JMJ inflammatory stim JD3 interact with m thethylate histone His	n histone proteins is a m e and is crucial for prope in-containing proteins r C domain can catalyze t reaction that requires in n at least 30 such protei of the UTX/UTY family in otein (UTX), the ubiquito d JmjC domain-containin both di- and tri-methyl l biquitously expressed (C D3 functions to regulate uli and has been shown ixed-lineage leukemia (f 3 at Lys4 (6,7). The UTY of	hajor determinant o er programming of f represent the larges he demethylation o ron and α-ketogluta ns, which can be div nclude the ubiquito usly transcribed Y c ng protein 3 (JMJD3) histone H3 Lys 27 (4 a). UTX functions to e gene expression ir to be upregulated i MLL) complexes 2 ar gene is expressed ir	f the formation of the genome during it class of potential f mono-, di-, and irate (3). Based on vided into 7 usly transcribed X hromosome ) (3). This family of I-8). The <i>UTX</i> gene regulate <i>HOX</i> gene n macrophages n prostate cancer and 3, both of which n most tissues in
Background Re	ferences	1. Kubicek, S. et al. (20) 2. Lin, W. and Dent, S.Y 3. Klose, R.J. et al. (200) 4. Agger, K. et al. (2007) 5. Lan, F. et al. (2007) 6. Lee, M.G. et al. (2007) 7. De Santa, F. et al. (2007) 9. Greenfield, A. et al. ( 10. Greenfield, A. et al.	06) Ernst Schering ( (2006) Curr Opin (2006) Curr Opin (3) Nat Rev Genet 7, (3) Nature 449, 689-94. (3) Science 318, 447- (3) Science 318, 447- (4) Scien	Res Found Workshop, 1- Genet Dev 16, 137-42. 715-27. 4. 50. 94. 94. net 7, 737-42. 4, 474-8.	27.	
Species Reactiv	ity	Species reactivity is de	termined by testing	g in at least one approve	ed application (e.g.,	western blot).
Western Blot Bu	uffer	IMPORTANT: For weste TBS, 0.1% Tween® 20 a	ern blots, incubate at 4°C with gentle s	membrane with diluted haking, overnight.	primary antibody ir	ז 5% w/v BSA, 1X
Applications Ke	у	W: Western Blotting IP	<b>e:</b> Immunoprecipita	tion IHC-P: Immunohist	ochemistry (Paraffi	n)
Cross-Reactivity	y Key	H: Human M: Mouse R	: Rat <b>Mk:</b> Monkey			

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