


#3909
Store at -20°C

UTF1 Antibody



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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	M R	Endogenous	40	Rabbit	#Q5T230	8433

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 and 50% glycerol. Store at –20°C. Do not aliquot the antibody.	
Specificity / Sensitivity	UTF1 Antibody detects endogenous levels of total UTF1 protein.	
Species predicted to react based on 100% sequence homology:	Human	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to amino acid sequence near the C-terminus of human UTF1. Antibodies are purified by Protein A and peptide affinity chromatography.	
Background	Undifferentiated embryonic cell transcription factor 1 (UTF1) is expressed in cells of the inner cell mass and the epiblast (1). Expression is down-regulated with development, although it is maintained in the embryonic germ cells and in the adult gonads (1). Reduced expression in embryonic stem cells (ESCs) is associated with failure to differentiate properly, although self-renewal is unaffected (2). UTF1 is tightly associated with chromatin in mouse and human ESCs and may be involved in maintaining an epigenetic environment necessary for the pluripotent state (2,3). Co-expression of UTF1 with reprogramming factors c-Myc, Oct-4, Sox2 and KLF4, along with siRNA knock-down of p53 increased efficiency of induced pluripotent stem cell generation by 100 fold (4).	
Background References	1. Okuda, A. et al. (1998) <i>EMBO J</i> 17, 2019-32. 2. van den Boom, V. et al. (2007) <i>J Cell Biol</i> 178, 913-24. 3. Kooistra, S.M. et al. (2009) <i>Stem Cell Res</i> 2, 211-8. 4. Zhao, Y. et al. (2008) <i>Cell Stem Cell</i> 3, 475-9.	

Species Reactivity	Species reactivity is determined by testing in at least one approved 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	WB: Western Blotting
Cross-Reactivity Key	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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