90065

UTF1 Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

Support: 877-678-TECH (8324)

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W	Reactivity: M R	Sensitivity: Endogenous	MW (kDa): 40	Source/Isotype: Rabbit	UniProt ID: #Q5T230	Entrez-Gene Id 8433
Product Usage Information		Application Western Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/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 correponding 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		 Okuda, A. et al. (1998) EMBO J 17, 2019-32. van den Boom, V. et al. (2007) J Cell Biol 178, 913-24. Kooistra, S.M. et al. (2009) Stem Cell Res 2, 211-8. Zhao, Y. et al. (2008) Cell Stem Cell 3, 475-9. 				
Species Reacti	vity	Species reactivity is do	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.				
Annlications Key		W· Western Blotting				

Applications Key W: Western Blotting

Cross-Reactivity Key M: Mouse R: Rat

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 to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, 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.