Store at -20C

974



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

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit IgG	UniProt ID: #Q99958	Entrez-Gene Id: 2303
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, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		FoxC2 (D4D4) Rabbit mAb recognizes endogenous levels of total FoxC2 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Leu278 of human FoxC2 protein.				
Background		Forkhead box (Fox) proteins are a family of evolutionarily conserved transcription factors defined by the presence of a winged helix DNA-binding domain called a Forkhead box (1). In humans, there are over 40 known Fox protein family members, divided into 19 subfamilies, which have evolved to regulate gene transcription in diverse and highly specialized biological contexts throughout development (2). Mutations that disrupt the expression of Fox gene family members have consequently been implicated in a broad array of human disorders, including immunological dysfunction, infertility, speech/language disorders, and cancer (3,4).				
Background References		The expression of FoxC2 and several other Fox transcription factors are regulated during adipogenesis, suggesting their involvement in adipocyte differentiation (5). A transgenic mouse model exhibiting over expression of FoxC2 in white adipose tissue (WAT) and brown adipose tissue (BAT) showed a reduction of the intra-abdominal WAT depot (6). The BAT-specific gene Ucp1 is upregulated in the intra-abdominal WAT depot of these transgenic mice, resulting in histological features similar to those seen in BAT. This evidence suggests that FoxC2 can play a protective role against obesity and diet-induced insulin resistance (6).				
		 Myatt, S.S. and Lam, E.W. (2007) Nat Rev Cancer 7, 847-59. Jackson, B.C. et al. (2010) Hum Genomics 4, 345-52. Hannenhalli, S. and Kaestner, K.H. (2009) Nat Rev Genet 10, 233-40. Benayoun, B.A. et al. (2011) Trends Genet 10, 224-32. Gerin, I. et al. (2009) J Biol Chem 284, 10755-63. Cederberg, A. et al. (2001) Cell 106, 563-73. 				
Species Reactivit	ty.	Species reactivity is de	termined by testing	in at least one approved	d application (e.g., v	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				
Cross-Reactivity Key		H: Human				
Trademarks and Patents		Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.				
		All other trademarks a more information.	re the property of t	heir respective owners. \	/isit cellsignal.com/	trademarks for
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.