

76764

FoxO1 (C29H4) Rabbit mAb (Biotinylated)



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.

Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 78-82	Source/Isotype: Rabbit InG	UniProt ID: #O12778	Entrez-Gene Id: 2308	
	Application Western Blotting	, 0 92	asz.e1ge	Dilution 1:1000		
	Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 mg/ml BSA, and 50% glycerol. Store at –20°C. Do not aliquot the antibody.					
sitivity	FoxO1 (C29H4) Rabbit mAb (Biotinylated) detects endogenous levels of total FoxO1 protein. The antibody does not detect exogenously expressed family members FoxO3a or FoxO4.					
ation	Monoclonal antibody is produced by immunizing animals with a GST-fusion protein corresponding to the carboxy terminus of human FoxO1.					
	This Cell Signaling Technology antibody is conjugated to biotin under optimal conditions. The biotinylated antibody is expected to exhibit the same species cross-reactivity as the unconjugated FoxO1 (C29H4) Rabbit mAb #2880.					
	The Forkhead family of transcription factors is involved in tumorigenesis of rhabdomyosarcoma and acute leukemias (1-3). Within the family, three members (FoxO1, FoxO4, and FoxO3a) have sequence similarity to the nematode orthologue DAF-16, which mediates signaling via a pathway involving IGFR1, PI3K, and Akt (4-6). Active forkhead members act as tumor suppressors by promoting cell cycle arrest and apoptosis. Increased expression of any FoxO member results in the activation of the cell cycle inhibitor p27 Kip1. Forkhead transcription factors also play a part in TGF-β-mediated upregulation of p21 Cip1, a process negatively regulated through PI3K (7). Increased proliferation results when forkhead transcription factors are inactivated through phosphorylation by Akt at Thr24, Ser256, and Ser319, which results in nuclear export and inhibition of transcription factor activity (8). Forkhead transcription factors can also be inhibited by the deacetylase sirtuin (SirT1) (9).					
eferences	2. Galili, N. et al. (1993 3. Borkhardt, A. et al. (4. Nakae, J. et al. (1995 5. Rena, G. et al. (1999 6. Guo, S. et al. (1999) 7. Seoane, J. et al. (200 8. Arden, K.C. (2004) A	8) Nat Genet 5, 230- (1997) Oncogene 14 9) J Biol Chem 274, 1 9) J Biol Chem 274, 17 J Biol Chem 274, 17 04) Cell 117, 211-23. Mol Cell 14, 416-8.	enet 5, 230-5. Oncogene 14, 195-202. Chem 274, 15982-5. Chem 274, 17179-83. Chem 274, 17184-92. I 17, 211-23.			
	sitivity cation	Application Western Blotting Supplied in 136 mM N 50% glycerol. Store at sitivity FoxO1 (C29H4) Rabbit antibody does not det antibody the carboxy terminus This Cell Signaling Tec biotinylated antibody FoxO1 (C29H4) Rabbit The Forkhead family of acute leukemias (1-3). similarity to the nema PI3K, and Akt (4-6). Ac and apoptosis. Increa inhibitor p27 Kip1. For p21 Cip1, a process ne forkhead transcription Ser319, which results transcription factors of 1. Anderson, M.J. et al. 2. Galili, N. et al. (1993) 3. Borkhardt, A. et al. 4. Nakae, J. et al. (1999) 5. Rena, G. et al. (1999) 7. Seoane, J. et al. (2004) A. Arden, K.C. (2004) A.	Application Western Blotting Supplied in 136 mM NaCl, 2.6 mM KCI, 12 50% glycerol. Store at -20°C. Do not alique for the carboxy terminus of human FoxO1. This Cell Signaling Technology antibody is biotinylated antibody is expected to exhib FoxO1 (C29H4) Rabbit mAb #2880. The Forkhead family of transcription factor acute leukemias (1-3). Within the family, the similarity to the nematode orthologue DAPI3K, and Akt (4-6). Active forkhead meminand apoptosis. Increased expression of an inhibitor p27 Kip1. Forkhead transcription p21 Cip1, a process negatively regulated forkhead transcription factors are inactive. Ser319, which results in nuclear export and transcription factors can also be inhibited. Eferences 1. Anderson, M.J. et al. (1998) Genomics 42. Galili, N. et al. (1993) Nat Genet 5, 230-33. Borkhardt, A. et al. (1997) Oncogene 144. Nakae, J. et al. (1999) J Biol Chem 274, 135. Rena, G. et al. (1999) J Biol Chem 274, 136. Guo, S. et al. (1999) J Biol Chem 274, 177. Seoane, J. et al. (2004) Cell 117, 211-23. 8. Arden, K.C. (2004) Mol Cell 14, 416-8.	Application Western Blotting Supplied in 136 mM NaCl, 2.6 mM KCI, 12 mM sodium phosphate 50% glycerol. Store at ~20°C. Do not aliquot the antibody. Sitivity FoxO1 (C29H4) Rabbit mAb (Biotinylated) detects endogenous levantibody does not detect exogenously expressed family member Monoclonal antibody is produced by immunizing animals with a difference of the carboxy terminus of human FoxO1. This Cell Signaling Technology antibody is conjugated to biotin unbiotinylated antibody is expected to exhibit the same species crosfoxO1 (C29H4) Rabbit mAb #2880. The Forkhead family of transcription factors is involved in tumori acute leukemias (1-3). Within the family, three members (FoxO1, similarity to the nematode orthologue DAF-16, which mediates si PI3K, and Akt (4-6). Active forkhead members act as tumor supprand apoptosis. Increased expression of any FoxO member results inhibitor p27 Kip1. Forkhead transcription factors also play a part p21 Cip1, a process negatively regulated through PI3K (7). Increaforkhead transcription factors are inactivated through phosphory Ser319, which results in nuclear export and inhibition of transcriptranscription factors can also be inhibited by the deacetylase sirted. 1. Anderson, M.J. et al. (1998) Genomics 47, 187-99. 2. Galili, N. et al. (1993) Nat Genet 5, 230-5. 3. Borkhardt, A. et al. (1997) Oncogene 14, 195-202. 4. Nakae, J. et al. (1999) J Biol Chem 274, 1719-83. 6. Guo, S. et al. (1999) J Biol Chem 274, 17184-92. 7. Seoane, J. et al. (2004) Cell 117, 211-23.	Application Western Blotting Supplied in 136 mM NaCl, 2.6 mM KCl, 12 mM sodium phosphate (pH 7.4) dibasic, 2 to 50% glycerol. Store at -20°C. Do not aliquot the antibody. Sitivity FoxO1 (C29H4) Rabbit mAb (Biotinylated) detects endogenous levels of total FoxO1 pantibody does not detect exogenously expressed family members FoxO3a or FoxO4. Monoclonal antibody is produced by immunizing animals with a GST-fusion protein of the carboxy terminus of human FoxO1. This Cell Signaling Technology antibody is conjugated to biotin under optimal condit biotinylated antibody is expected to exhibit the same species cross-reactivity as the trocol (C29H4) Rabbit mAb #2880. The Forkhead family of transcription factors is involved in tumorigenesis of rhabdom acute leukemias (1-3). Within the family, three members (FoxO1, FoxO4, and FoxO3a similarity to the nematode orthologue DAF-16, which mediates signaling via a pathw P13K, and Akt (4-6). Active forkhead members act as tumor suppressors by promotin and apoptosis. Increased expression of any FoxO member results in the activation or inhibitor p27 Kip1. Forkhead transcription factors also play a part in TGF-β-mediated p21 Cip1, a process negatively regulated through P13K (7). Increased proliferation reforkhead transcription factors are inactivated through phosphorylation by Akt at Thr Ser319, which results in nuclear export and inhibition of transcription factor activity transcription factors can also be inhibited by the deacetylase sirtuin (SirT1) (9). 1. Anderson, M.J. et al. (1998) Genomics 47, 187-99. 2. Galili, N. et al. (1999) J Biol Chem 274, 17184-92. 3. Borkhardt, A. et al. (1999) J Biol Chem 274, 17184-92. 4. Nakae, J. et al. (2004) Mol Cell 117, 211-23. 5. Kraden, K.C. (2004) Mol Cell 114, 416-8.	

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 W: Western Blotting

Cross-Reactivity Key H: Human M: Mouse R: Rat Mk: Monkey

Trademarks and Patents Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.

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.