



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

Store at +4C
#4439

Oct-4A (C30A3) Rabbit mAb (Alexa Fluor® 555 Conjugate)

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

Applications: IF-IC	Reactivity: H M	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q01860	Entrez-Gene Id: 5460
-------------------------------	---------------------------	-----------------------------------	--------------------------------------	-------------------------------	--------------------------------

Product Usage Information	Application Immunofluorescence (Immunocytochemistry)	Dilution 1:100
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.	
Specificity/Sensitivity	Oct-4A (C30A3) Rabbit mAb (Alexa Fluor® 555 Conjugate) detects endogenous levels of total Oct-4A protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with recombinant protein specific to the amino terminus of human Oct-4A.	
Description	This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 555 fluorescent dye and tested in-house for immunofluorescent analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Oct-4A (C30A3) Rabbit mAb #2840.	
Background	Oct-4 (POU5F1) is a transcription factor highly expressed in undifferentiated embryonic stem cells and embryonic germ cells (1). A network of key factors that includes Oct-4, Nanog, and Sox2 is necessary for the maintenance of pluripotent potential, and downregulation of Oct-4 has been shown to trigger cell differentiation (2,3). Research studies have demonstrated that Oct-4 is a useful germ cell tumor marker (4). Oct-4 exists as two splice variants, Oct-4A and Oct-4B (5). Recent studies have suggested that the Oct-4A isoform has the ability to confer and sustain pluripotency, while Oct-4B may exist in some somatic, non-pluripotent cells (6,7).	
Background References	<ol style="list-style-type: none"> Looijenga, L.H. et al. (2003) <i>Cancer Res</i> 63, 2244-50. Pesce, M. and Schöler, H.R. (2001) <i>Stem Cells</i> 19, 271-278. Pan, G. and Thomson, J.A. (2007) <i>Cell Res</i> 17, 42-9. Cheng, L. et al. (2007) <i>J Pathol</i> 211, 1-9. Takeda, J. et al. (1992) <i>Nucleic Acids Res</i> 20, 4613-20. Cauuffman, G. et al. (2006) <i>Stem Cells</i> 24, 2685-91. Lee, J. et al. (2006) <i>J Biol Chem</i> 281, 33554-65. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	IF-IC: Immunofluorescence (Immunocytochemistry)	
Cross-Reactivity Key	H: Human M: Mouse	
Trademarks and Patents	<p>Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.</p> <p>This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is conditioned on the buyer using the purchased product solely in research conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not (1) use this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; or (c) manufacturing or quality assurance or quality control, and/or (2) sell or transfer this product or its components for resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.</p> <p>U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.</p> <p>All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.</p>	

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.

Orders: 877-616-CELL (2355) • orders@cellsignal.com • Support: 877-678-TECH (8324) • info@cellsignal.com • Web: cellsignal.com
For Research Use Only. Not for Use in Diagnostic Procedures.