

GATA-3 (E2N1Y) Mouse mAb



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, IHC-P, IF-IC, FC- FP, C&R	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 50	Source/Isotype: Mouse IgG1	UniProt ID: #P23771	Entrez-Gene Id: 2625
Product Usage		The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.				
Information		Application				Dilution
		Western Blotting Immunohistochemis	tn. (Daraffin)			1:1000 1:400
		Immunofluorescence	•	nictry)		1:100
		Flow Cytometry (Fixe		iisti y)		1:100
		CUT&RUN	d/i eriileabilized)			1:50
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.				
		For a carrier free (BS/	A and azide free) ver	sion of this product see	product #57847.	
Specificity/Sensitivity		GATA-3 (E2N1Y) Mouse mAb recognizes endogenous levels of total GATA-3 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human GATA-3 protein.				
Background		GATA proteins comprise a group of transcription factors that are related by the presence of conserved zinc finger DNA-binding domains, which bind directly to the nucleotide sequence core element GATA (1-3). There are six vertebrate GATA proteins, designated GATA-1 to GATA-6 (3).				
		mouse embryos die l spinal cord (5). The fu recently been shown (6,7). It is expressed i mammary gland, and cancer is associated prognostic biomarke	between E11 and E1 unction of GATA-3 ha to be a downstream n both hematopoiet d central nervous sy with poor clinical ou r (11). Haploinsuffici	ent of various systems i 2 due to growth retarda is been extensively studi i target of Notch in Notc ic and non-hematopoiet stem (8-10). Decreased e tcome. GATA-3 expressic ency of GATA-3 results ir deafness and renal dys	tion and deformitie ed in T cell develop h-mediated differe ic tissues, includin expression of GATA- on level may therefor Barakat syndome	es in the brain and oment and has ntiation of TH2 cells g the kidney, skin, 3 in luminal breast ore be a promising
Background Ref	erences	1. Ko, L.J. and Engel, J.D. (1993) <i>Mol Cell Biol</i> 13, 4011-22. 2. Merika, M. and Orkin, S.H. (1993) <i>Mol Cell Biol</i> 13, 3999-4010. 3. Lowry, J.A. and Atchley, W.R. (2000) <i>J Mol Evol</i> 50, 103-15. 4. Debacker, C. et al. (1999) <i>Mech Dev</i> 85, 183-7. 5. Pandolfi, P.P. et al. (1995) <i>Nat Genet</i> 11, 40-4. 6. Ho, I.C. et al. (2009) <i>Nat Rev Immunol</i> 9, 125-35. 7. Amsen, D. et al. (2007) <i>Immunity</i> 27, 89-99. 8. Grote, D. et al. (2008) <i>PLoS Genet</i> 4, e1000316. 9. Kaufman, C.K. et al. (2003) <i>Genes Dev</i> 17, 2108-22. 10. Kouros-Mehr, H. et al. (2006) <i>Cell</i> 127, 1041-55. 11. Chou, J. et al. (2010) <i>J Cell Physiol</i> 222, 42-9. 12. Van Esch, H. et al. (2000) <i>Nature</i> 406, 419-22.				

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 **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **C&R:** CUT&RUN

Cross-Reactivity Key H: Human

Limited Uses

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

Alexa Fluor is a registered trademark of Life Technologies Corporation.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information

more informatio

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.