#8792 Store at -20C

NKX2.5 (E1Y8H) Rabbit 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: WB, IF-IC, FC-FP | Reactivity: H | Sensitivity: Endogenous | MW (kDa): 30-42 | Source/Isotype: Rabbit IgG | UniProt ID: #P52952 | Entrez-Gene Id: 1482 | |
|-----------------------------------|--|---|---------------------------|-------------------------------|------------------------|-------------------------|--|
| Product Usage Information | Ap | plication | | Dilution | | | |
| | We | estern Blotting | | 1:1000 | | | |
| | Im | munofluorescence (| Immunocytochen | 1:400 - 1:1600 | | | |
| | Flo | w Cytometry (Fixed | /Permeabilized) | 1:800 - 1:1600 | | | |
| Storage | | Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody. | | | | | |
| Specificity / Sensiti | vity NK | NKX2.5 (E1Y8H) Rabbit mAb recognizes endogenous levels of total NKX2.5 protein. | | | | | |
| Source / Purificatio | | Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro67 of human NKX2.5 protein. | | | | | |
| Background | hea eml gro with (AS | NKX2.5 is a member of the NKX homeobox transcription factor family. NKX2.5 plays an essential role in heart development and is among the earliest factors expressed in the cardiac lineage in developing embryos. Targeted disruption of the murine <i>Nkx2.5</i> gene results in abnormal heart morphogenesis, severe growth retardation, and embryonic lethality around E9.5 (1,2). Mutations in <i>NKX2.5</i> are likewise associated with several congenital heart conditions, such as atrial defect with atrioventricular conduction defects (ASD-AVCD) and Tetralogy of Fallot (TOF) (3,4). Transcriptional activation of <i>NKX2.5</i> is also associated with some B and T cell leukemias that result from chromosomal translocation (5-8). | | | | | |
| Background Refere | 2. T 3. B 4. R 5. N 6. P 7. N | Lyons, I. et al. (1995) Genes Dev 9, 1654-66. Tanaka, M. et al. (1999) Development 126, 1269-80. Benson, D.W. et al. (1999) J Clin Invest 104, 1567-73. Reamon-Buettner, S.M. and Borlak, J. (2010) Hum Mutat 31, 1185-94. Nagel, S. et al. (2003) Cancer Res 63, 5329-34. Przybylski, G.K. et al. (2006) Haematologica 91, 317-21. Nagel, S. et al. (2007) Cancer Res 67, 1461-71. Su, X. et al. (2008) Haematologica 93, 1081-5. | | | | | |

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 WB: Western Blotting IF-IC: Immunofluorescence (Immunocytochemistry)

FC-FP: Flow Cytometry (Fixed/Permeabilized)

Cross-Reactivity Key H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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

formation.

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.

NKX2.5 (E1Y8H) Rabbit mAb (#8792) Datasheet Without Images Cell Signaling Technology

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.