#3057 Store at -20C

## NEK7 (C34C3) 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	Reactivity: H	Sensitivity: Endogenous	<b>MW (kDa):</b> 32	Source/Isotype: Rabbit IgG	<b>UniProt ID:</b> #Q8TDX7	Entrez-Gene Id: 140609
Product Usage Information	•	<b>plication</b> stern Blotting			Dilution 1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at $-20$ °C. Do not aliquot the antibody.				
Specificity / Sensitivity		NEK7 (C34C3) Rabbit mAb detects endogenous levels of total NEK7 protein.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to the carboxy terminus of human NEK7.				
Background	NEK smal mito: kina: NEK	NEK7 (NIMA-related protein kinase 7), is one of a family of serine/threonine kinases, named NEK1– NEK11, which are involved in the control of mitosis and other non-mitotic functions (1-6). NEK7 is the smallest NIMA-related kinase in mammals, and is widely expressed by many tissues (1-3). Its role in mitosis relates to centrosome enrichment and microtubule nucleation, and similar to other NIMA-related kinases, NEK7 is localized to the microtubule-organizing center (MTOC) at the time of mitotic entry (3,6). NEK7 has also been demonstrated to be essential for NLRP3 inflammasome activation by directly binding to the leucine-rich repeat (LRR) domain of NLRP3 (4-6).				
<ol> <li>Kandli, M. et al. (2000) Genomics 68, 187-96.</li> <li>Belham, C. et al. (2003) J Biol Chem 278, 34897-909.</li> <li>O'regan, L. et al. (2007) Cell Div 2, 25.</li> <li>Shi, H. et al. (2016) Nat Immunol 17, 250-8.</li> <li>He, Y. et al. (2016) Nature 530, 354-7.</li> <li>Sun, Z. et al. (2020) Front Physiol 11, 606996.</li> </ol>						

**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

**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.

 $\hbox{U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom.}\\$ 

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

NEK7 (C34C3) Rabbit mAb (#3057) Datasheet Without Images Cell Signaling Technology 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.