**Revision 1** 

-

## Cell Signaling #9894 Store at -20C **CEND1** Antibody H. Orders: 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) Support:

info@cellsignal.com cellsignal.com Web:

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications: W, IF-F	<b>Reactivity:</b> H M R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 22	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q8N111	Entrez-Gene Id: 51286
Product Usage Information		<b>Application</b> Western Blotting Immunofluorescence (	(Frozen)		<b>Dilu</b> 1:10 1:50	tion 00
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CEND1 Antibody recognizes endogenous levels of total CEND1 protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human CEND1 protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		The progression of progenitor cells towards neuronal differentiation is regulated by cell cycle control and the transition from proliferative to neurogenic cell divisions. Cell cycle exit and neuronal differentiation 1 (CEND1) is a neuronal protein widely expressed in the adult nervous system (1). It is implicated in the synchronization of cell cycle exit and differentiation of neuronal precursors in the developing nervous system, and its expression marks the exit of proliferative cells from the cell cycle (2,3). Levels of CEND1 expression in the subventricular zone of the adult nervous system are critical for cell cycle control and neuronal differentiation mechanisms during neonatal SVZ neurogenesis (4). It has recently been shown that neural progenitor cells (NPCs) that overexpress CEND1 display increased neuronal differentiation in a mouse model of brain injury, suggesting its potential use as a therapeutic intervention for neurodegenerative diseases and brain injury (5).				
Background Re	ferences	1. Patsavoudi, E. et al. ( 2. Politis, P.K. et al. (200 3. Koutmani, Y. et al. (2 4. Katsimpardi, L. et al. 5. Makri, G. et al. (2010	(1995) J Neurosci Re 07) Proc Natl Acad S 1004) Eur J Neurosci (2008) Stem Cells 2 0) Stem Cells 28, 127	es 40, 506-18. 5 <i>ci USA</i> 104, 17861-6. 20, 2509-23. 26, 1796-807. 7-39.		
Species Reactiv	ity	Species reactivity is de	termined by testing	in at least one approve	d application (e.g., v	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 Ke	y	W: Western Blotting IF	-F: Immunofluores	cence (Frozen)		
Cross-Reactivit	у Кеу	H: Human M: Mouse R	: Rat			
Trademarks an	d Patents	Cell Signaling Technolo	ogy is a trademark o	of Cell Signaling Technol	ogy, Inc.	
		All other trademarks a more information.	re the property of t	heir respective owners. '	Visit cellsignal.com/	/trademarks for
Limited Uses		Except as otherwise ex the following terms ap terms and conditions t separately accepted in force or effect.	pressly agreed in a ply to Products pro hat are in addition writing by a legally	writing signed by a lega vided by CST, its affiliate to, or different from, the authorized representat	ally authorized repro s or its distributors ose contained herei ive of CST, are rejec	esentative of CST, . Any Customer's n, unless tted and are of no
		Products are labeled w approved, cleared, or l	ith For Research Us icensed by the FDA	e Only or a similar label or other regulatory fore	ing statement and ign or domestic en	have not been tity, 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 product 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.