e at -20C	Brn2/POU3F2 Antibody			
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
~		Support:	877-678-TECH (8324)	
773		Web:	info@cellsignal.com cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W, IP	<b>Reactivity:</b> H R	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 55	<b>Source/Isotype:</b> Rabbit	<b>UniProt ID:</b> #P20265	Entrez-Gene Id: 5454		
Product Usage Information	•	<b>Application</b> Western Blotting Immunoprecipitation			<b>Dilution</b> 1:1000 1:100			
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/Sen	sitivity	Brn2/POU3F2 Antibody recognizes endogenous levels of total Brn2/POU3F2 protein.						
Species predic based on 100% homology	ted to react sequence	Mouse						
Source / Purifi	cation	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala208 of human Brn2/POU3F2 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background		Brn2/POU3F2 is a POU domain-containing transcription factor involved in neuronal differentiation and activation of the corticotrophin-releasing hormone gene (1,2). In mice, disruption of the Brn2 gene results in loss of specific neuronal lineages in the hypothalamus (3). In addition to its role in mammalian neurogenesis, Brn2 has also been implicated in melanoma tumorigenesis and has been shown in the literature to be overexpressed in human melanoma cells compared to normal melanocytes (4,5). Recent studies also identify Brn2 as a transcription factor playing an important role in keratinocyte differentiation (6). Recent reports demonstrate that overexpression of three transcription factors (Brn2, Ascl1, and Myt1L) can directly convert human fibroblasts into functional neurons under precisely defined conditions (7,8).						
Background Re	eferences	1. Fujii, H. and Hamad 2. Schonemann, M.D. 3. Nakai, S. et al. (1995 4. Cook, A.L. et al. (200 5. Cook, A.L. and Sturr 6. Shi, G. et al. (2010) 7. Pfisterer, U. et al. (2 8. Ambasudhan, R. et	la, H. (1993) Neuror et al. (1995) Genes 5) Genes Dev 9, 310 03) J Invest Dermate m, R.A. (2008) Pigm PLoS One 5, e13216 011) Proc Natl Acad al. (2011) Cell Stem	n 11, 1197-206. Dev 9, 3122-35. 9-21. ol 121, 1150-9. ent Cell Melanoma Res 2 5. Sci USA 108, 10343-8. Cell 9, 113-8.	21, 611-26.			
Species Reactiv	vity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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 K	ey	W: Western Blotting I	<b>P:</b> Immunoprecipita	ation				
Cross-Reactivit	ty Key	H: Human R: Rat						
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		All other trademarks a more information.	are the property of	their respective owners.	Visit cellsignal.com	/trademarks for		
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