Store at -20C	EOMES (D8D1R) Rabbit mAb					
		Orders:	877-616-CELL (2355) orders@cellsignal.com			
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#		3 Trask Lane Danvers Ma	ssachusetts 01923 USA			
For Research Use Only. Not for Use in Diagnostic Procedures.						

Applications: Re W, IF-IC, FC-FP, ChIP, C&R	eactivity: H	Sensitivity: Endogenous	MW (kDa): 75, 85	Source/Isotype: Rabbit IgG	UniProt ID: #O95936	Entrez-Gene Id 8320	
Product Usage Information		For optimal ChIP results, use 10 μl of antibody and 10 μg of chromatin (approximately 4 x 106 cells) per IP. This antibody has been validated using SimpleChIP [®] Plus Sonication Chromatin IP Kits.					
		The CUT&RUN dilution	on was determined u	ising CUT&RUN Assay Ki	t #86652.		
		Application			Dilu	tion	
		Western Blotting			1:10	00	
		Immunofluorescence (Immunocytochemistry)			1:400 - 1:1600		
		Flow Cytometry (Fixe	d/Permeabilized)		1:40	0 - 1:1600	
		Chromatin IP			1:50		
		CUT&RUN			1:50		
Storage				5), 150 mM NaCl, 100 µg, ot aliquot the antibody.	/ml BSA, 50% glyce	rol and less than	
		For a carrier free (BS	A and azide free) vei	sion of this product see	product #71103.		
Specificity/Sensitiv	ity	EOMES (D8D1R) Rabl	bit mAb recognizes e	endogenous levels of tot	al EOMES protein.		
Source / Purificatio	n	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro180 of human EOMES protein.					
Background		The T-box family of transcription factors is named for their shared homology with the DNA binding domain of the mouse brachyury (T) gene product. Members of this family bind DNA and are capable of transcriptional activation. They also have evolutionarily conserved expression patterns and roles in embryonic development, primarily mesoderm development (1). EOMES, or Tbr2 (T-box brain 2), is a master regulator of mesoderm formation that is also essential for trophoblast formation, gastrulation, neurogenesis, and the differentiation of certain T cell subsets. Embryos from EOMES knockout mice die soon after implantation due to their inability to develop a trophoblast (2,3). Conditional neural knockout mice show defects in development of a specific population of neural progenitors known as intermediate-stage progenitor cells (IPCs) that give rise only to neurons (4,5). These cells are formed from the radial glia in the ventricular and sub-ventricular zones of the cortex. Expression of EOMES increases as cells develop from radial glia to IPCs and then decreases as IPCs progress to neurons. Recent evidence suggests that EOMES and IPCs may also play a role in neurogenesis in the adult hippocampal SGZ (5). EOMES is also a key transcription factor for memory T cells and for full effector differentiation of CD8 ⁺ T cells (6). Expression of EOMES is induced in CD8 ⁺ T cells following viral infection and bacterial infection where sufficient IL-12 has been produced to elicit acute host cell response (7).					
Background Refere	nces	1. Showell, C. et al. (2 2. Russ, A.P. et al. (20 3. Strumpf, D. et al. (2 4. Englund, C. et al. (2 5. Hodge, R.D. et al. (6. Takayanagi, M. et al. 7. Takemoto, N. et al.	00) <i>Nature</i> 404, 95-9 2005) <i>Development</i> 2005) <i>J Neurosci</i> 25, 2008) <i>J Neurosci</i> 28, al. (2003) <i>Rheumato</i>). 132, 2093-102. 247-51. 3707-17. / Int 23, 315-8.			
Species Reactivity		Species reactivity is c	letermined by testin	g in at least one approve	ed application (e.g.,	western blot).	
			-				
Western Blot Buffe	r	IMPORTANT: For wes		membrane with diluted	primary antibody i	n 5% w/v BSA, 1X	

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 IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) ChIP: Chromatin IP C&R: CUT&RUN
Cross-Reactivity Key	H: Human
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