TBR1 (D6C6X) Rabbit mAb			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
361	Support:	877-678-TECH (8324)	
#49661	Web:	info@cellsignal.com cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.			

Applications: IHC-P, IF-F	Reactivity: H M R	Sensitivity: Endogenous (IHC-P, IF-F), Transfected (W)	MW (kDa): 74	Source/Isotype: Rabbit IgG	UniProt ID: #Q16650	Entrez-Gene Id: 10716		
Product Usage	А	Application			Dilution			
Information	Ir	Immunohistochemistry (Paraffin)			1:250			
	Ir	Immunofluorescence (Frozen)			1:400			
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.						
	Fo	For a carrier free (BSA and azide free) version of this product see product #42120.						
Specificity / Sensitiv	,	TBR1 (D6C6X) Rabbit mAb recognizes endogenous levels of total TBR1 protein. Low levels of nuclear staining of unknown specificity have been observed in mouse small intestine, spleen, and pancreas.						
Source / Purificatior		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro415 of human TBR1 protein.						
Background	of (1) re de lay ne an T-l of (1) re de lay ne	T-box, brain, 1 (TBR1) is a transcription factor important in vertebrate embryo development. As a member of T-Box family of transcription factors, TBR1 is expressed in postmitotic glutamatergic projection neurons (1). During cortical neurogenesis, sequential expression of transcription factors Pax6, TBR2, and TBR1 regulates discrete steps in projection neuron differentiation (2). TBR1 is enriched in layer 6 of the developing cortex. In the absence of TBR1, <i>TBR1</i> mutants exhibit profound defects in frontal cortex and layer 6 differentiation, suggesting that TBR1 regulates regional and laminar identity of postmitotic cortical neurons (3). Therefore, TBR1 expression can be used as a marker for postmitotic glutamatergic neurons and cortical laminar specificity. T-box, brain, 1 (TBR1) is a transcription factor important in vertebrate embryo development. As a member of T-Box family of transcription factors, TBR1 is expressed in postmitotic glutamatergic projection neurons (1). During cortical neurogenesis, sequential expression of transcription factors Pax6, TBR2, and TBR1 regulates discrete steps in projection neuron differentiation (2). TBR1 is enciched in layer 6 of the developing cortex. In the absence of TBR1, <i>TBR1</i> mutants exhibit profound defects in frontal cortex and layer 6 differentiation, suggesting that TBR1 regulates regional and laminar identity of postmitotic cortical neurons (3). Therefore, TBR1 expression can be used as a marker for postmitotic glutamatergic neurons and cortical neurons (3). Therefore, TBR1 expression can be used as a marker for postmitotic glutamatergic projection neurons (3). TBR1 is enciched in layer 6 of the developing cortex. In the absence of TBR1, <i>TBR1</i> mutants exhibit profound defects in frontal cortex and layer 6 differentiation, suggesting that TBR1 regulates regional and laminar identity of postmitotic cortical neurons (3). Therefore, TBR1 expression can be used as a marker for postmitotic glutamatergic neurons and cortical laminar specificity.						
Background Refere	2.	1. Hevner, R.F. et al. (2001) <i>Neuron</i> 29, 353-66. 2. Englund, C. et al. (2005) <i>J Neurosci</i> 25, 247-51. 3. Bedogni, F. et al. (2010) <i>Proc Natl Acad Sci U S A</i> 107, 13129-34.						
Species Reactivity	Spe	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Applications Key	IH	IHC-P: Immunohistochemistry (Paraffin) IF-F: Immunofluorescer			nce (Frozen)			
Cross-Reactivity Ke	X: 2	 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	Ale	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Alexa Fluor is a registered trademark of Life Technologies Corporation. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.						

Limited Uses

TBR1 (D6C6X) Rabbit mAb (#49661) Datasheet Without Images Cell Signaling Technology

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