

Tbr 1

Cat.No. 328 003; Polyclonal rabbit antibody, 50 µg specific antibody (lyophilized)

Data Sheet

Reconstitution/ Storage	50 µg specific antibody, lyophilized. Affinity purified with the immunogen. Rabbit serum albumin was added for stabilization. For reconstitution add 50 µl H ₂ O to get a 1mg/ml solution in PBS. Then aliquot and store at -20°C until use.
Applications	WB: 1 : 1000 up to 1 : 2000 (AP staining) IP: not tested yet ICC: 1 : 500 IHC: 1 : 200 up to 1 : 500 IHC-P/FFPE: 1 : 200
Immunogen	Synthetic peptide corresponding to AA 128 to 145 from rat Tbr1 (UniProt Id: D4A6N8)
Reactivity	Reacts with: rat, mouse (Q64336). Other species not tested yet.
Specificity	Specific for Tbr 1.

TO BE USED IN VITRO / FOR RESEARCH ONLY
NOT TOXIC, NOT HAZARDOUS, NOT INFECTIOUS, NOT CONTAGIOUS

Tbr 1 is a transcription factor of the T-box family that is highly expressed in glutamatergic early-born cortical projection neurons. It plays a role in the differentiation of intermediate progenitor cells (IPCs) into postmitotic projection neuron.

Selected References SYSY Antibodies

DNA-PKcs, ATM, and ATR Interplay Maintains Genome Integrity during Neurogenesis.
Enriquez-Rios V, Dumitrache LC, Downing SM, Li Y, Brown EJ, Russell HR, McKinnon PJ
The Journal of neuroscience : the official journal of the Society for Neuroscience (2017) 37(4): 893-905. **IHC; tested species: mouse**

Selected General References

Pax6 regulates Tbr1 and Tbr2 expressions in olfactory bulb mitral cells.

Imamura F, Greer CA
Molecular and cellular neurosciences (2013) 54: 58-70.

The T-box brain 1 (Tbr1) transcription factor inhibits astrocyte formation in the olfactory bulb and regulates neural stem cell fate.

Méndez-Gómez HR, Vergaño-Vera E, Abad JL, Bulfone A, Moratalla R, de Pablo F, Vicario-Abejón C
Molecular and cellular neurosciences (2011) 46(1): 108-21.

Tbr1 regulates regional and laminar identity of postmitotic neurons in developing neocortex.

Bedogni F, Hodge RD, Elsen GE, Nelson BR, Daza RA, Beyer RP, Bammler TK, Rubenstein JL, Hevner RF
Proceedings of the National Academy of Sciences of the United States of America (2010) 107(29): 13129-34.

Pax6, Tbr2, and Tbr1 are expressed sequentially by radial glia, intermediate progenitor cells, and postmitotic neurons in developing neocortex.

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Tbr1 regulates differentiation of the preplate and layer 6.

Hevner RF, Shi L, Justice N, Hsueh Y, Sheng M, Smiga S, Bulfone A, Goffinet AM, Campagnoni AT, Rubenstein JL
Neuron (2001) 29(2): 353-66.