



TBR1 Recombinant Monoclonal Antibody

Product Code	CSB-RA618090A0HU
Abbreviation	T-box brain protein 1
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q16650
Immunogen	A synthesized peptide derived from human TBR1
Species Reactivity	Human
Tested Applications	ELISA
Relevance	Probable transcriptional regulator involved in developmental processes. Required for normal brain development.
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in phosphate buffered saline , pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Alias	T-box brain protein 1, T-brain-1, TBR-1, TES-56, TBR1
Immunogen Species	Homo sapiens (Human)
Research Area	Neuroscience
Gene Names	TBR1
Clone No.	2E10

Description

The recombinant TBR1 antibody is a monoclonal antibody made in vitro using the TBR1 antibody genes that are typically expressed from a plasmid in a stable mammalian cell line. The genes coding for the TBR1 antibody will ultimately assemble into a fully functional antibody after translation. The synthesized antibody is the recombinant antibody against TBR1. It underwent purification using affinity-chromatography. This recombinant TBR1 antibody is suitable for use in the ELISA to detect the TBR1 protein from Human.

TBR1 is a neuron-specific T-box transcription factor that regulates the regional and laminar identity of the developing brain's neocortical regions, including layer 6. TBR1 is abundantly expressed in the deep layers of the cortex, where it takes part in the differentiation of subsets of projection neurons. In addition to controlling axonal projection, TBR1 also plays an essential role in neuronal activation. The TBR1 gene binds to the promoter of Grin2b and regulates Grin2b expression in response to neuronal activation. TBR1 has been linked to a



variety of brain problems, including autism spectrum disorders (ASDs) and intellectual disability, due to its importance in both brain and cortical development.