Datasheet for ABIN7600119

anti-TBR1 antibody (AA 15-682)

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Overview

Quantity:	100 µg
Target:	TBR1
Binding Specificity:	AA 15-682
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This TBR1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (IHC), Flow Cytometry (FACS)

Product Details

Purpose:	Anti-TBR1 Antibody Picoband®
Immunogen:	E.coli-derived human TBR1 recombinant protein (Position: K15-S682). Human TBR1 shares 99.3% amino acid (aa) sequence identity with mouse TBR1.
Characteristics:	Anti-TBR1 Antibody Picoband® (ABIN7600119). Tested in WB, Flow Cytometry, ELISA applications. This antibody reacts with Human, Mouse, Rat. The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Purification:	Immunogen affinity purified.

Target Details

Target:	TBR1
Alternative Name:	TBR1 (TBR1 Products)
Background:	T-box, brain, 1 is a transcription factor protein important in vertebrate embryo development. It is encoded by the TBR1 gene. This gene is a member of a conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of numerous developmental processes. In mouse, the ortholog of this gene is expressed in the cerebral cortex, hippocampus, amygdala and olfactory bulb and is thought to play an important role in neuronal migration and axonal projection. In mouse, the C-terminal region of this protein was found to be necessary and sufficient for association with the guanylate kinase domain of calcium/calmodulin-dependent serine protein kinase.
Molecular Weight:	74 kDa
Gene ID:	10716
UniProt:	Q16650

Application Details

Application Notes:	Western blot, 0.25-0.5 µg/mL, Human, Mouse, Rat Immunohistochemistry, 2-5 µg/mL, Mouse Flow Cytometry (Fixed), 1-3 µg/1x10^6 cells, Human ELISA, 0.1-0.5 µg/mL, - 1. Bulfone, A., Smiga, S. M., Shimamura, K., Peterson, A., Puelles, L., Rubenstein, J. L. R. T-brain-1: a homolog of Brachyury whose expression defines molecularly distinct domains within the cerebral cortex. Neuron 15: 63-78, 1995. 2. den Hoed, J., Sollis, E., Venselaar, H., Estruch, S. B., Deriziotis, P., Fisher, S. E. Functional characterization of TBR1 variants in neurodevelopmental disorder. Sci. Rep. 8: 14279, 2018. 3. Deriziotis, P., O'Roak, B. J., Graham, S. A., Estruch, S. B., Dimitropoulou, D., Bernier, R. A., Gerdts, J., Shendure, J., Eichler, E. E., Fisher, S. E. De novo TBR1 mutations in sporadic autism disrupt protein functions. Nature Commun. 5: 4954, 2014. Note: Electronic Article.
Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Adding 0.2 mL of distilled water will yield a concentration of 500 µg/mL.

Handling

Concentration:	500 µg/mL
Buffer:	Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Storage:	4 °C,-20 °C
Storage Comment:	At -20°C for one year from date of receipt. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for six months. Avoid repeated freezing and thawing.