

TCF12 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP14835a

Specification

TCF12 Antibody (N-term) - Product Information

Application Primary Accession Other Accession Reactivity Predicted Host Clonality Isotype Calculated MW Antigen Region WB,E <u>O99081</u> <u>P51514</u>, <u>O61286</u>, <u>NP_996923.1</u>, <u>NP_996919.1</u> Human Mouse, Rat Rabbit Polyclonal Rabbit IgG 72965 55-84

TCF12 Antibody (N-term) - Additional Information

Gene ID 6938

Other Names

Transcription factor 12, TCF-12, Class B basic helix-loop-helix protein 20, bHLHb20, DNA-binding protein HTF4, E-box-binding protein, Transcription factor HTF-4, TCF12, BHLHB20, HEB, HTF4

Target/Specificity

This TCF12 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 55-84 amino acids from the N-terminal region of human TCF12.

Dilution WB~~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

TCF12 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TCF12 Antibody (N-term) - Protein Information

Name TCF12



Synonyms BHLHB20, HEB, HTF4

Function Transcriptional regulator. Involved in the initiation of neuronal differentiation. Activates transcription by binding to the E box (5'-CANNTG-3') (By similarity). May be involved in the functional network that regulates the development of the GnRH axis (PubMed:<u>32620954</u>).

Cellular Location Nucleus.

Tissue Location Expressed in several tissues and cell types including skeletal muscle, thymus, and a B-cell line

TCF12 Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- <u>Western Blot</u>
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- <u>Cell Culture</u>

TCF12 Antibody (N-term) - Images



TCF12 Antibody (N-term) (Cat.# AP14835a) western blot analysis in Jurkat cell line and mouse kidney lysates (35ug/lane). This demonstrates the TCF12 antibody detected the TCF12 protein (arrow).

TCF12 Antibody (N-term) - Background

The protein encoded by this gene is a member of the basic helix-loop-helix (bHLH) E-protein family that recognizes the consensus binding site (E-box) CANNTG. This encoded protein is expressed in many tissues, among them skeletal muscle, thymus, B-



and T-cells, and may participate in regulating lineage-specific gene expression through the formation of heterodimers with other bHLH E-proteins. Several alternatively spliced transcript variants of this gene have been described, but the full-length nature of some of these variants has not been determined. [provided by RefSeq].

TCF12 Antibody (N-term) - References

Schotte, R., et al. J. Immunol. 184(12):6670-6679(2010) Rose, J. Phd, et al. Mol. Med. (2010) In press : Landa, I., et al. PLoS Genet. 5 (9), E1000637 (2009) : Gardini, A., et al. PLoS Genet. 4 (11), E1000275 (2008) : Kumar, R., et al. J. Biol. Chem. 283(27):19026-19038(2008)