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TCF4 Antibody (N-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP5756a

Specification

TCF4 Antibody (N-term) - Product Information

Application	**WB, FC,E**
Primary Accession	P15884
Other Accession	Q60722, NP_003190.1
Reactivity	**Human, Mouse**
Predicted	**Mouse**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**71308**
Antigen Region	**48-73**

TCF4 Antibody (N-term) - Additional Information

Gene ID 6925

Other Names
Transcription factor 4, TCF-4, Class B basic helix-loop-helix protein 19, bHLHb19, Immunoglobulin transcription factor 2, ITF-2, SL3-3 enhancer factor 2, SEF-2, TCF4, BHLHB19, ITF2, SEF2

Target/Specificity
This TCF4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 48-73 amino acids from the N-terminal region of human TCF4.

Dilution
WB~~1:1000
FC~~1:10~50

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
TCF4 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

TCF4 Antibody (N-term) - Protein Information

Name TCF4

Synonyms BHLHB19, ITF2, SEF2

Function Transcription factor that binds to the immunoglobulin enhancer Mu-E5/KE5-motif. Involved in the initiation of neuronal differentiation. Activates transcription by binding to the E box (5'- CANNTG-3'). Binds to the E-box present in the somatostatin receptor 2 initiator element (SSTR2-INR) to activate transcription (By similarity). Preferentially binds to either 5'-ACANNTGT-3' or 5'- CCANNTGG-3'.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00981, ECO:0000269|PubMed:22777675}

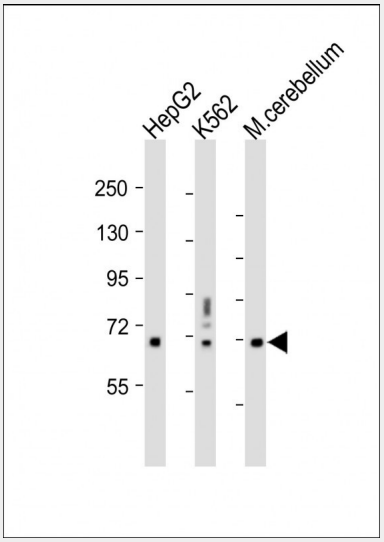
Tissue Location
Expressed in adult heart, brain, placenta, skeletal muscle and to a lesser extent in the lung. In developing embryonic tissues, expression mostly occurs in the brain

TCF4 Antibody (N-term) - Protocols

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

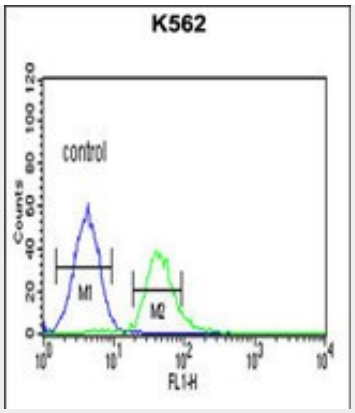
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

TCF4 Antibody (N-term) - Images



All lanes : Anti-TCF4 Antibody (N-term) at 1:1000 dilution Lane 1: HepG2 whole cell lysate Lane 2: K562 whole cell lysate Lane 3: Mouse cerebellum whole tissue lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 71 kDa Blocking/Dilution buffer: 5% NFDM/TBST.

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TCF4 Antibody (N-term) (Cat. #AP5756a) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

TCF4 Antibody (N-term) - Background

TCF4 is transcription factor 4, a basic helix-turn-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is expressed predominantly in pre-B-cells, although it is found in other tissues as well. Defects in this gene are a cause of Pitt-Hopkins syndrome.

TCF4 Antibody (N-term) - References

Rosenfeld, J.A., et al. Genet. Med. 11(11):797-805(2009)
Herbst, A., et al. Biochem. Biophys. Res. Commun. 387(4):736-740(2009)
Rena, V., et al. Placenta 30(10):876-883(2009)
Henthorn, P., et al. Science 247(4941):467-470(1990)