Product Name: TCF-4/12 Rabbit Polyclonal Antibody
Catalog #: APRab18736

Summary

Production Name	TCF-4/12 Rabbit Polyclonal Antibody
Description	Rabbit Polyclonal Antibody
Host	Rabbit
Application	WB,IHC-P,IF-P,IF-F,ICC/IF,ELISA
Reactivity	Human,Mouse,Rat

Performance

Conjugation	Unconjugated
Modification	Unmodified
Isotype	IgG
Clonality	Polyclonal
Form	Liquid
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.
Buffer	Liquid in PBS containing 50% glycerol, 0.5% protective protein and 0.02% New type preservative N.
Purification	Affinity purification

Immunogen

Gene Name	TCF4/TCF12
Alternative Names	TCF4; BHLHB19; ITF2; SEF2; 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; TCF12; BHLHB20; HEB; HTF4; Transcription factor 12;
Gene ID	6925/6938
SwissProt ID	P15884/Q99081.The antiserum was produced against synthesized peptide derived from human TCF4/12. AA range:581-630

Application

Dilution Ratio	WB 1:500-1:2000, IHC-P 1:100-1:300, ELISA 1:20000, IF-P/IF-F/ICC/IF 1:50-200
Molecular Weight	60kDa

Product Name: TCF-4/12 Rabbit Polyclonal Antibody
Catalog #: APRab18736

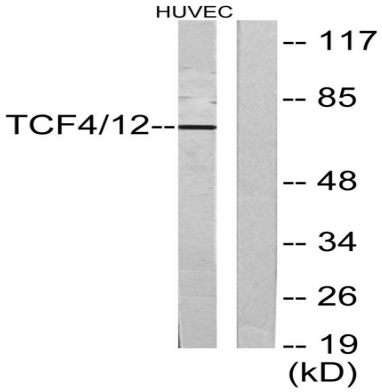
Background

This gene encodes transcription factor 4, a basic helix-loop-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 broadly expressed, and may play an important role in nervous system development. Defects in this gene are a cause of Pitt-Hopkins syndrome. In addition, an intronic CTG repeat normally numbering 10-37 repeat units can expand to >50 repeat units and cause Fuchs endothelial corneal dystrophy. Multiple alternatively spliced transcript variants that encode different proteins have been described. [provided by RefSeq, Jul 2016],disease:Defects in TCF4 are a cause of Pitt-Hopkins syndrome (PTHS) [MIM:610954].,disease:Haploinsufficiency of TCF4 is a cause of Pitt-Hopkins syndrome (PTHS) [MIM:610954]. PTHS is a rare syndromic encephalopathy characterized by severe psychomotor delay, epilepsy, daily bouts of diurnal hyperventilation starting in infancy, mild postnatal growth retardation, postnatal microcephaly, and distinctive facial features. Since most hitherto reported cases have been sporadic, with males and females equally affected, PTHS is regarded as an autosomal dominant condition.,function:Transcription factor that binds to the immunoglobulin enchancer Mu-E5/KE5-motif. 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'.,sequence caution:Incomplete and probable erroneous sequence.,similarity:Contains 1 basic helix-loop-helix (bHLH) domain.,subunit:Efficient DNA binding requires dimerization with another bHLH protein. Forms homo- or heterooligomers with myogenin. Interacts with HIVEP2.,tissue specificity: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.,

Research Area

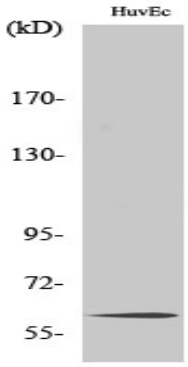
Stem cell pathway; Adherens_Junction; WNT;WNT-T CELL;β-Catenin; Protein_Acetylation

Image Data



Western blot analysis of lysates from HUVEC cells, using TCF4/12 Antibody. The lane on the right is blocked with the synthesized peptide.

Product Name: TCF-4/12 Rabbit Polyclonal Antibody
Catalog #: APRab18736



Western Blot analysis of various cells using TCF-4/12 Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit （SC-003,Inventbiotech,MN,USA）.

Note

For research use only.