



TCF-4 Rabbit mAb

Catalog No	YP-rAb-16889
Isotype	IgG
Reactivity	Human,Mouse
Applications	WB,IHC,IF,ELISA
Gene Name	TCF4
Protein Name	Transcription factor 4
Purification Process	Protein A
Specificity	Endogenous
Formulation	PBS, 50% glycerol, 0.05% Proclin 300, 0.05%BSA
Source	Monoclonal, Rabbit,IgG
Dilution	IHC 1:200-1:1000; WB 1:2000-1:10000; IF 1:200-1:1000; ELISA 1:5000-1:20000; Note: For IHC, we suggest antigen retrieval with TE buffer pH 9.0
Concentration	0.5 mg/ml
Purity	≥90%
Storage Stability	-15° C to -25° C/1 year(Do not lower than -25° C)
Synonyms	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 ;
Observed Band	62kD
Calculated Molecular Weight	71kD
Cell Pathway	Nucleus .
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.
Function	Disease:Defects in TCF4 are a cause of Pitt-Hopkins syndrome [MIM:610954]. Disease:Haploinsufficiency of TCF4 is a cause of Pitt-Hopkins syndrome [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 enhancer Mu-E5/KE5-motif. Binds to the E-box present in the somatostatin receptor 2 initiator element (SSTR2-ISR) 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.,

Background

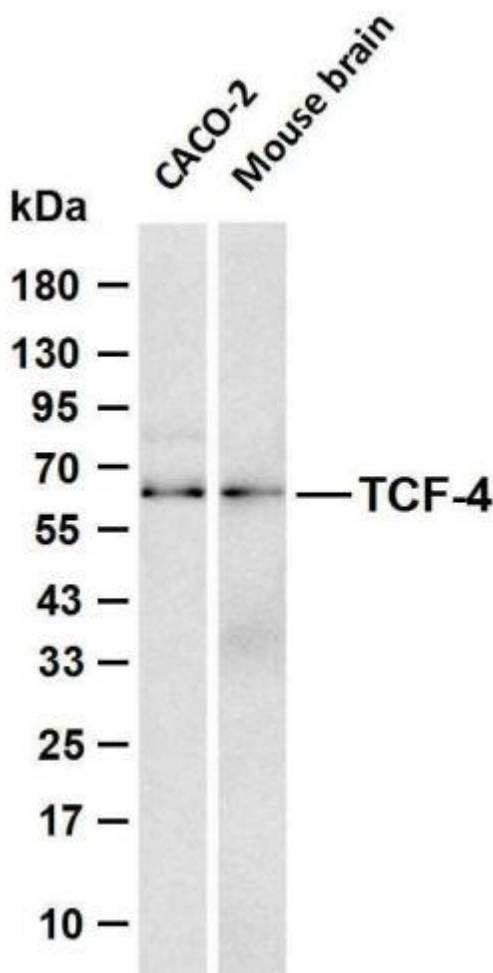
This gene encodes transcription factor 4, a basic helix-loop-helix transcription factor. The encoded protein recognizes an Ephrussi-box ('E-box') binding site ('CANNTG') - a motif first identified in immunoglobulin enhancers. This gene is broadly expressed, and may play an important role in nervous system 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],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.



Various whole cell lysates were separated by 4-20% SDS-PAGE, and the membrane was blotted with anti-TCF-4 antibody. The HRP-conjugated Goat anti-Rabbit IgG (H + L) antibody was used to detect the antibody. Lane 1: CACO-2 Lane 2: Mouse brain
Predicted band size: 71kDa Observed band size: 62kDa

