10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Mouse Monoclonal Antibody to TCF4

Purified Mouse Monoclonal Antibody
Catalog # AO2477a

Product Information

Application	WB, FC, E
Primary Accession	P15884
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Clone Names	4D4C4
Isotype	Mouse IgG1
Calculated MW	71308
Description	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. ;
Immunogen	Purified recombinant fragment of human TCF4 (AA: 518-667) expressed in E. Coli.
Formulation	Purified antibody in PBS with 0.05% sodium azide
Application Note	ELISA: 1/10000; WB: 1/500 - 1/2000; FCM: 1/200 - 1/400

Additional Information

Gene ID	6925
Other Names	E2-2; ITF2; PTHS; SEF2; FECD3; ITF-2; SEF-2; TCF-4
Dilution	WB~~1:1000 FC~~1:10~50 E~~N/A
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Mouse Monoclonal Antibody to TCF4 is for research use only and not for use in diagnostic or therapeutic procedures.

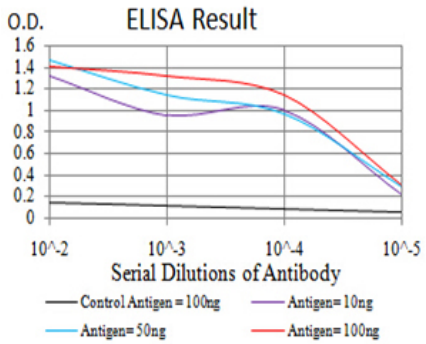
Protein Information

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

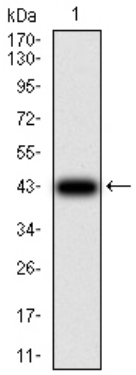
References

1.J Psychiatr Res. 2015 Oct;69:95-101. ; 2.Haematologica. 2014 Dec;99(12):e257-9.;

Images

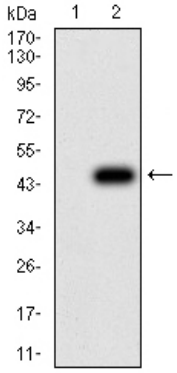


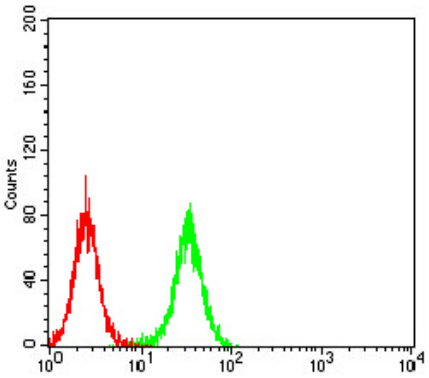
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



Western blot analysis using TCF4 mAb against human TCF4 (AA: 518-667) recombinant protein. (Expected MW is 43 kDa)

Western blot analysis using TCF4 mAb against HEK293 (1) and TCF4 (AA: 518-667)-hIgGFc transfected HEK293 (2) cell lysate.





Flow cytometric analysis of K562 cells using TCF4 mouse mAb (green) and negative control (red).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.