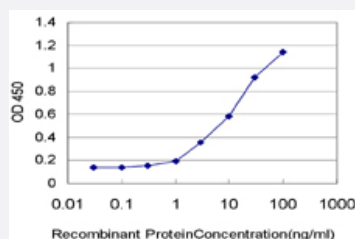


TCF4 monoclonal antibody (M03), clone 1G4

Catalog # H00006925-M03

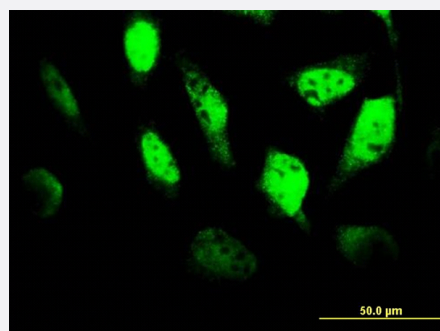
Size 100 ug

Applications



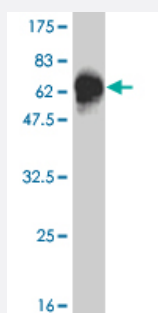
Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TCF4 is approximately 1 ng/ml as a capture antibody.



Immunofluorescence

Immunofluorescence of monoclonal antibody to TCF4 on HeLa cell. [antibody concentration 10 ug/ml]



Western Blot detection against Immunogen (65.89 KDa) .

Specification

Product Description

Mouse monoclonal antibody raised against a full length recombinant TCF4.

Immunogen	TCF4 (AAH31056.1, 1 a.a. ~ 365 a.a) full-length recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Sequence	MHHQQRMAALGTDKELSDLLDFSAMFSPPVSSGKNGPTSLASGHFTGSNVEDRSSSSGSWGNG GHPSPSRNYGDGTPYDHTTSRDLGSHDNLSPPFVNSRIQSKTERGSYSSYGRESNLQGCHQQSL LGGDMMDMGNPGTLPSTKPGSQYYQYSSNNPRRRPLHSSAMEVQTKKVRKVPPGLPSSVYAPSA STADYNRDSPGYPSSKPATSTFPSSFFMQDGHSSDPWSSSSGMNQPGYAGMLGNSSHIPQSS SYCSLHPHERLSYPSSHSSADINSSLPPMSTFHRSGTNHYSTSSCTPPANGTDSIMANRGSGAAGS SQTGDALGKALASIYSPDHTNNSFSSNPSTPVGSPPSLSAGTAVWSRN
Host	Mouse
Reactivity	Human
Interspecies Antigen Sequence	Mouse (98)
Isotype	IgG1 Kappa
Quality Control Testing	Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (65.89 KDa) .
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot (Recombinant protein)

[Protocol Download](#)

- Sandwich ELISA (Recombinant protein)

Detection limit for recombinant GST tagged TCF4 is approximately 1ng/ml as a capture antibody.

[Protocol Download](#)

- ELISA

- Immunofluorescence

Immunofluorescence of monoclonal antibody to TCF4 on HeLa cell. [antibody concentration 10 ug/ml]

Gene Info — TCF4

Entrez GeneID	6925
GeneBank Accession#	BC031056.1
Protein Accession#	AAH31056.1
Gene Name	TCF4
Gene Alias	E2-2, ITF2, MGC149723, MGC149724, PTHS, SEF2, SEF2-1, SEF2-1A, SEF2-1B, bHLHb19
Gene Description	transcription factor 4
Omim ID	602272 610954
Gene Ontology	Hyperlink
Gene Summary	This gene encodes 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. Multiple alternatively spliced transcript variants that encode different proteins have been described. [provided by RefSeq]
Other Designations	immunoglobulin transcription factor 2

Publication Reference

- [Tcf4 Encodes Correct Brain Development During Embryogenesis.](#)

Simone Mesman, Reinier Bakker, Marten P Smidt.

Molecular and Cellular Neurosciences 2020 Jul; 106:103502.

Application: IF, IHC-Fr, Mouse, Mouse brains, Mouse cortex

- [Tumor xenograft modeling identifies an association between TCF4 loss and breast cancer chemoresistance.](#)

Ruiz de Garibay G, Mateo F, Stradella A, Valdés-Mas R, Palomero L, Serra-Musach J, Puente DA, Díaz-Navarro A, Vargas-Parra G, Tornero E, Morilla I, Farré L, Martínez-Iniesta M, Herranz C, McCormack E, Vidal A, Petit A, Soler T, Lázaro C, Puente XS, Villanueva A, Pujana MA.

Disease Models & Mechanisms 2018 May; 11(5):dmm032292.

Application: IHC-P, WB-Tr, Human, Mouse, CAL-51, MDA-MB-436 cells, Mouse tumors

- [A PGC1 \$\alpha\$ -mediated transcriptional axis suppresses melanoma metastasis.](#)

Luo C, Lim JH, Lee Y, Granter SR, Thomas A, Vazquez F, Widlund HR, Puigserver P.

Nature 2016 Sep; 537(7620):422.

Application: WB, Human, A375P cells

- [Knockdown of Human TCF4 Affects Multiple Signaling Pathways Involved in Cell Survival, Epithelial to Mesenchymal Transition and Neuronal Differentiation.](#)

Forrest MP, Waite AJ, Martin-Rendon E, Blake DJ.

PLoS One 2013 Aug; 8(8):e73169.

Application: WB-Tr, Human, SH-SY5Y cells

- [Inhibition of endothelial cell activation by bHLH protein E2-2 and its impairment of angiogenesis.](#)

Tanaka A, Itoh F, Nishiyama K, Takezawa T, Kurihara H, Itoh S, Kato M.

Blood 2010 May; 115(20):4138.

Application: IF, IP, WB-Tr, Monkey, Mouse, COS-7, Mouse embryonic endothelial cells

Disease

- [Depressive Disorder](#)
- [Genetic Predisposition to Disease](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)