

For Research Use Only

TCF4 Polyclonal antibody

Catalog Number: 22337-1-AP

Featured Product

59 Publications



Basic Information

Catalog Number:

22337-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG17813

GenBank Accession Number:

BC125084

GeneID (NCBI):

6925

UNIPROT ID:

P15884

Full Name:

transcription factor 4

Calculated MW:

671 aa, 72 kDa

Observed MW:

72 kDa

Purification Method:

Antigen Affinity purified

Recommended Dilutions:

WB 1:5000-1:50000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:50-1:500

IF-P 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF-P, IP, ELISA

Cited Applications:

WB, IHC, IF, IP, CoIP, ChIP

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat, drosophila

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB: Caco-2 cells, K-562 cells

IP: mouse lung tissue,

IHC: human testis tissue, mouse brain tissue

IF-P: mouse skeletal muscle tissue,

Background Information

Transcription factor 4 (TCF4), also known as SEF2, ITF2, E2-2, and ME2, 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 (SSTR2-1NR) to activate transcription. By similarity. Human TCF4 mRNA expression is particularly high in the brain. Usage of numerous 5' exons of the human TCF4 gene potentially yields in TCF4 protein isoforms with 18 different N-termini. In addition, the diversity of isoforms is increased by alternative splicing of several internal exons. Some isoforms contain a bipartite nuclear localization signal and are exclusively nuclear, whereas distribution of other isoforms relies on heterodimerization partners. Preferentially binds to either 5'-ACANNTGT-3' or 5'-CCANNTGG-3'. TCF4 has several splicing isoforms that are expressed differentially in tissues and during cancer progression (15547706, 12796377). The scope of molecular weight of several isoforms is about 60-90 kDa (21789225).

Notable Publications

Author	Pubmed ID	Journal	Application
Qiuzhen Wang	36232509	Int J Mol Sci	WB
Yi-Fan Tan	36127329	Cell Death Discov	CoIP, WB
Han Xiao	31572009	Cancer Manag Res	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

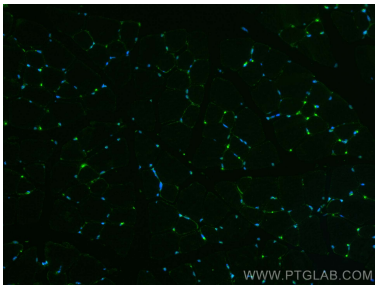
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

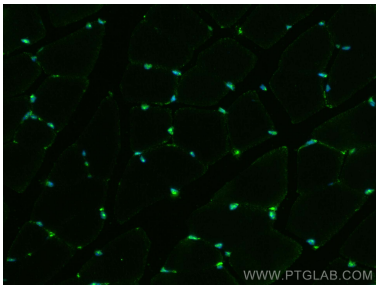
E: proteintech@ptglab.com
W: ptglab.com

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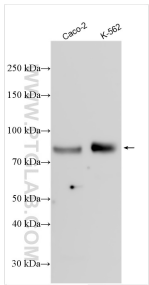
Selected Validation Data



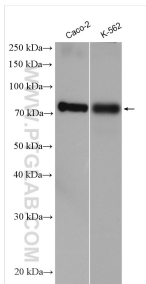
Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skeletal muscle tissue using TCF4 antibody (22337-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



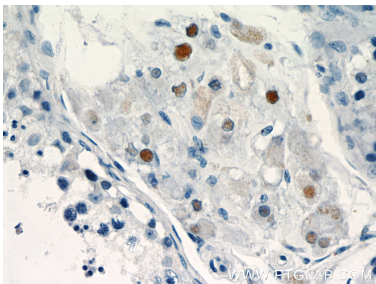
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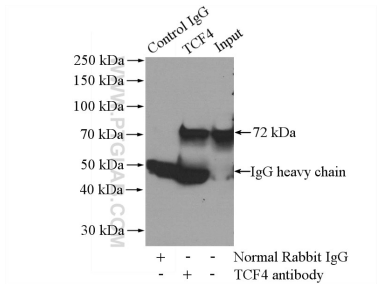
Various lysates were subjected to SDS PAGE followed by western blot with 22337-1-AP (TCF4 antibody) at dilution of 1:20000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 22337-1-AP (TCF4 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded human testis slide using 22337-1-AP (TCF4 Antibody) at dilution of 1:200.



IP result of anti-TCF4 (IP:22337-1-AP, 4ug; Detection:22337-1-AP 1:500) with mouse lung tissue lysate 4000ug.