

For Research Use Only

TCF4 Recombinant monoclonal antibody

Catalog Number: 87884-1-RR



Basic Information

Catalog Number: 87884-1-RR	GenBank Accession Number: BC125084	Purification Method: Protein A purification
Size: 100ul , Concentration: 1000 µg/ml by Nanodrop;	GeneID (NCBI): 6925	CloneNo.: 253344F9
Source: Rabbit	UNIPROT ID: P15884	Recommended Dilutions: WB: 1:5000-1:50000
Isotype: IgG	Full Name: transcription factor 4	
Immunogen Catalog Number: AG17813	Calculated MW: 671 aa, 72 kDa	
	Observed MW: 70-80 kDa, 65 kDa	

Applications

Tested Applications: WB, ELISA	Positive Controls: WB : SH-SY5Y cells, Caco-2 cells, K-562 cells, Neuro-2a cells, PC-12 cells
Species Specificity: human	

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).

Storage

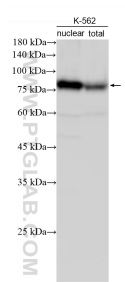
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol, pH7.3
Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

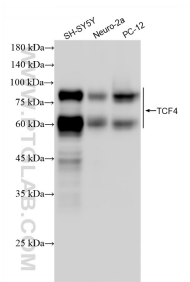
For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
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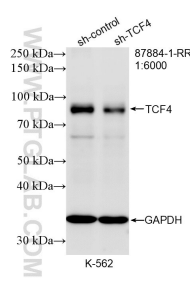
Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 87884-1-RR (TCF4 antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



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WB result of TCF4 antibody (87884-1-RR; 1:6000; incubated at room temperature for 1.5 hours) with sh-Control and sh-TCF4 transfected K-562 cells.