

CoraLite® Plus 488-conjugated TCF4 Polyclonal antibody

Catalog Number: **CL488-22337****Featured Product**

Basic Information

Catalog Number:

CL488-22337

Size:

1000 µg/ml

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 purification

Recommended Dilutions:

IF-P 1:50-1:500

Excitation/Emission maxima wavelengths:

493 nm / 522 nm

Applications

Tested Applications:

IF-P

Species Specificity:

human, mouse

Positive Controls:

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).

Storage

Storage:

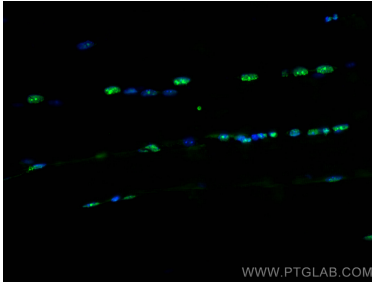
Store at -20°C. Avoid exposure to light. Stable for one year after shipment.

Storage Buffer:

PBS with 50% Glycerol, 0.05% Proclin300, 0.5% BSA, pH 7.3.

Aliquoting is unnecessary for -20°C storage

Selected Validation Data



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse skeletal muscle tissue using CoraLite® Plus 488 TCF4 antibody (CL488-22337) at dilution of 1:200. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).