

## TCF7L2 Rabbit mAb

Catalog No: #48990

Package Size: #48990-1 50ul #48990-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

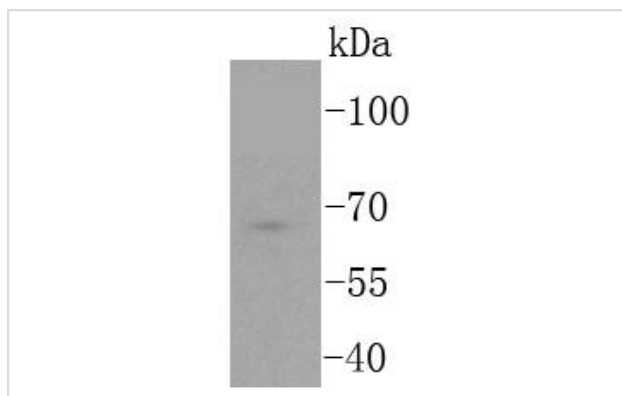
## Description

Product Name	TCF7L2 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SC06-90
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, IP, FC
Species Reactivity	Hu, Ms, Rt
Immunogen Description	recombinant protein
Other Names	HMG box transcription factor 4 antibody hTCF 4 antibody hTCF-4 antibody T cell factor 4 antibody T cell specific HMG box antibody T cell specific transcription factor 4 antibody T-cell factor 4 antibody T-cell-specific transcription factor 4 antibody TCF 4 antibody TCF-4 antibody TCF4 antibody TCF7L2 antibody TCF7L2 protein antibody TF7L2_HUMAN antibody Transcription factor 7 like 2 antibody Transcription factor 7 like 2 T cell specific HMG box antibody Transcription factor 7-like 2 antibody
Accession No.	Swiss-Prot#:Q9NQB0
Uniprot	Q9NQB0
GeneID	6934;
Calculated MW	68 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

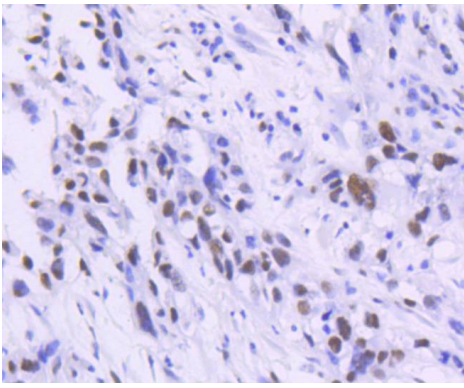
## Application Details

WB: 1:500-1:1000 IHC: 1:50-1:200 ICC: 1:50-1:200 FC: 1:50-1:100

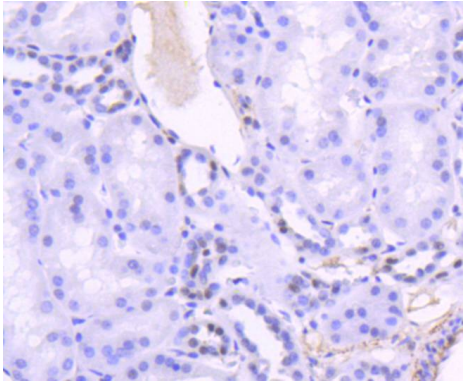
## Images



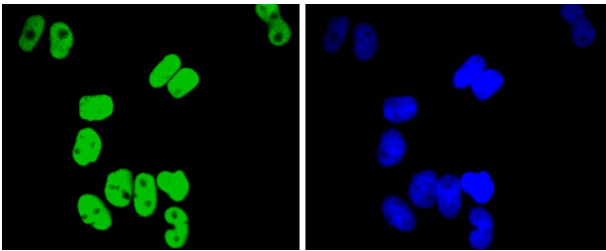
Western blot analysis of TCF7L2 on Jurkat cells lysates using anti-TCF7L2 antibody at 1/1,000 dilution.



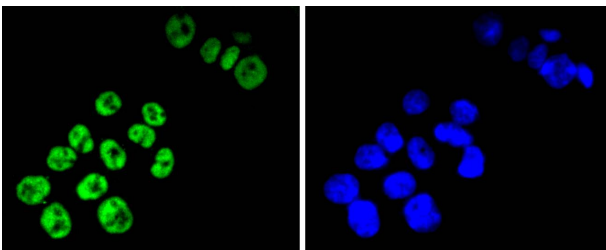
Immunohistochemical analysis of paraffin-embedded human kidney tissue using anti-TCF7L2 antibody. Counter stained with hematoxylin.



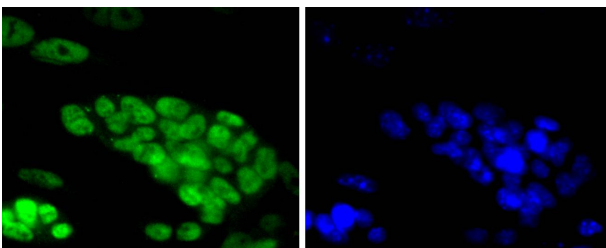
Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using anti-TCF7L2 antibody. Counter stained with hematoxylin.



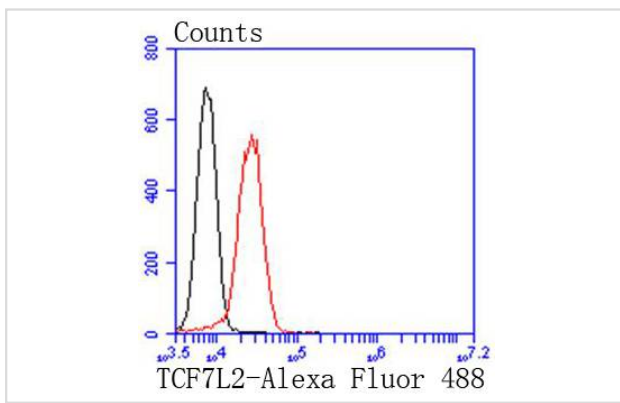
ICC staining TCF7L2 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining TCF7L2 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining TCF7L2 in D3 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of Jurkat cells with TCF7L2 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

## Background

T cell factors (TCFs) comprise a family of DNA-binding transcriptional activators that are essential for lymphoid cell development. These transcription factors are activated by the Wnt-1 and Wingless pathways and are characterized by the presence of a conserved protein motif, the high mobility group (HMG) 1 box, which mediates DNA binding. TCF-4 mainly localizes in the cytoplasm and is transported into the nucleus directly bound to  $\beta$ -catenin in a cooperative manner. This TCF-4/ $\beta$ -catenin complex induces expression of Wnt target genes, including multiple cancer-associated genes. c-Jun also interacts with TCF-4 and  $\beta$ -catenin, and the phosphorylation-dependent interaction between c-Jun and TCF4 regulates intestinal tumorigenesis by integrating JNK and APC/ $\beta$ -catenin. TCF-4 is also implicated in bipolar affective disorder.

## References

Note: This product is for in vitro research use only