10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

KD-Validated Anti-Transcription Factor 7 Like 2 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1379

Specification

KD-Validated Anti-Transcription Factor 7 Like 2 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q9NQB0
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 68 kDa; observed, 68 kDa KDa**
Gene Name	**TCF7L2**
Aliases	**TCF7L2; Transcription Factor 7 Like 2; TCF-4; TCF4; Transcription Factor 7-Like 2 (T-Cell Specific, HMG-Box); T-Cell-Specific Transcription Factor 4; HMG Box Transcription Factor 4; Transcription Factor 7-Like 2; T-Cell Factor 4; HTCF-4**
Immunogen	**A synthesized peptide derived from human TCF7L2**

KD-Validated Anti-Transcription Factor 7 Like 2 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**6934**

Other Names
Transcription factor 7-like 2, HMG box transcription factor 4, T-cell-specific transcription factor 4, T-cell factor 4, TCF-4, hTCF-4, TCF7L2, TCF4

KD-Validated Anti-Transcription Factor 7 Like 2 Rabbit Monoclonal Antibody - Protein Information

Name TCF7L2

Synonyms TCF4

Function
Participates in the Wnt signaling pathway and modulates MYC expression by binding to its promoter in a sequence-specific manner. Acts as a repressor in the absence of CTNNB1, and as activator in its presence. Activates transcription from promoters with several copies of the Tcf motif 5'-CCTTTGATC-3' in the presence of CTNNB1. TLE1, TLE2, TLE3 and TLE4 repress transactivation mediated by TCF7L2/TCF4 and CTNNB1. Expression of dominant-negative mutants results in cell-cycle arrest in G1. Necessary for the maintenance of the epithelial stem-cell compartment of the small intestine.

Cellular Location

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Nucleus, PML body. Nucleus. Note=Diffuse pattern. Colocalizes with SUMO1 and PIAS4 in a subset of PML (promyelocytic leukemia) nuclear bodies

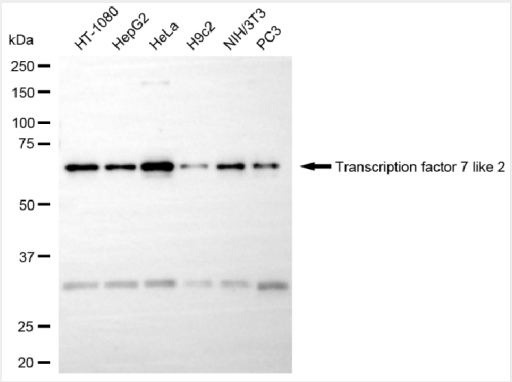
Tissue Location
Detected in epithelium from small intestine, with the highest expression at the top of the crypts and a gradient of expression from crypt to villus. Detected in colon epithelium and colon cancer, and in epithelium from mammary gland and carcinomas derived therefrom.

KD-Validated Anti-Transcription Factor 7 Like 2 Rabbit Monoclonal Antibody - Protocols

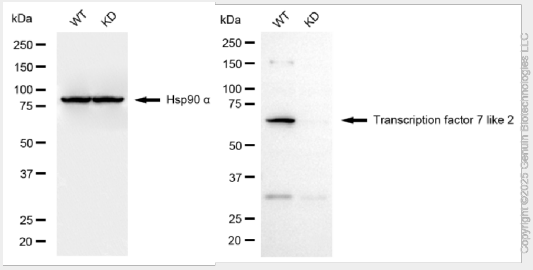
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Transcription Factor 7 Like 2 Rabbit Monoclonal Antibody - Images

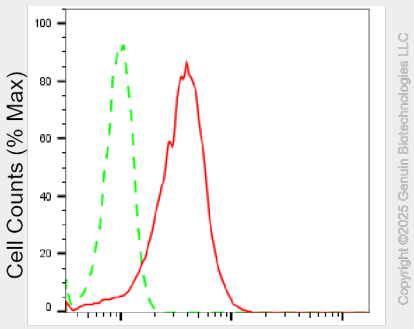


Western blotting analysis using anti-transcription factor 7 like 2 antibody (Cat#AGI1379). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-transcription factor 7 like 2 antibody (Cat#AGI1379, 1:20,000) and HRP-conjugated goat anti rabbit secondary antibody respectively.



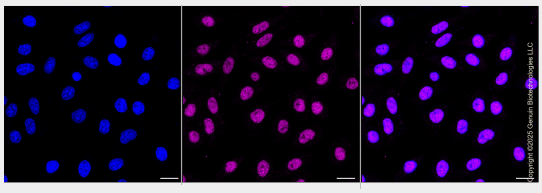
Western blotting analysis using anti-transcription factor 7 like 2 antibody (Cat#AGI1379). Transcription factor 7 like 2 expression in wild-type (WT) and transcription factor 7 like 2 (TCF7L2) knockdown (KD) HeLa cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with anti-transcription factor 7 like 2 antibody (Cat#AGI1379, 1:2,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999



Transcription factor 7 like 2-Alexa Fluor® 647

Flow cytometric analysis of Transcription factor 7 like 2 expression in HepG2 cells using anti-Transcription factor 7 like 2 antibody (Cat#AGI1379, 1:2,000). Green, isotype control; red, Transcription factor 7 like 2.



Immunocytochemical staining of HepG2 cells with anti-Transcription factor 7 like 2 antibody (Cat#AGI1379, 1:1,000). Nuclei were stained blue with DAPI; Transcription factor 7 like 2 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.