[KD Validated] Anti-TFDP1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R020906

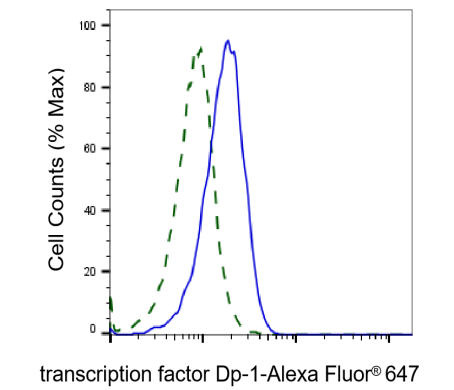
Product Information

Application	WB, FC, IF (Cell)/ICC
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:5,000; FC 1:200~1:2,000; IF 1:100~1:1,000
Host	Rabbit
Clonality	Monoclonal
Clone No.	51N72B41
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human DP1
Format	Affinity purified monoclonal antibody supplied in PBS with 0.02% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 12 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	[KD Validated] Anti-TFDP1 Rabbit mAb [51N72B41] is for research use only and not for use in diagnostic or therapeutic procedures.

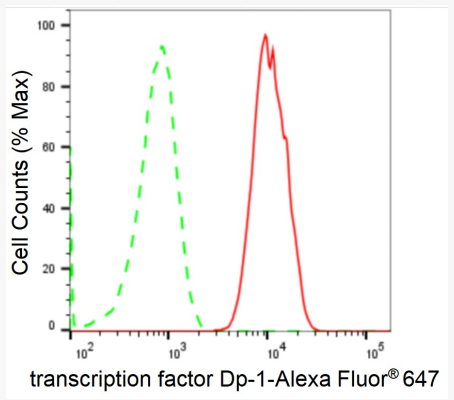
Protein Information

Synonyms	TFDP1; Transcription Factor Dp-1; DRTF1; DP1; Dp-1; DILC; Down-Regulated In Liver Cancer Stem Cells; E2F Dimerization Partner 1; DRTF1-Polypeptide 1; E2F-Related Transcription Factor.
Calculated MW	Calculated MW: 45 kDa, Observed MW: 49 kDa
Uniprot ID	Q14186
Gene ID	7027
Background	This gene encodes a member of a family of transcription factors that heterodimerize with E2F proteins to enhance their DNA-binding activity and promote transcription from E2F target genes. The encoded protein functions as part of this complex to control the transcriptional activity of numerous genes involved in cell cycle progression from G1 to S phase. Alternative splicing results in multiple transcript variants. Pseudogenes of this gene are found on chromosomes 1, 15, and X.

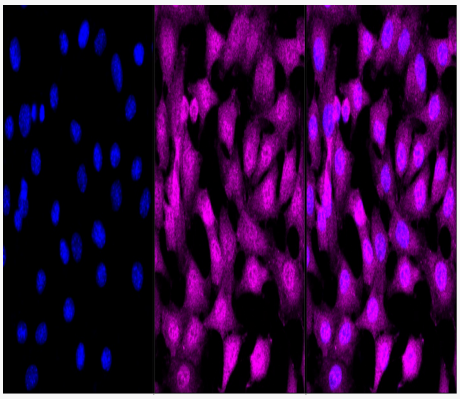
Validation Images



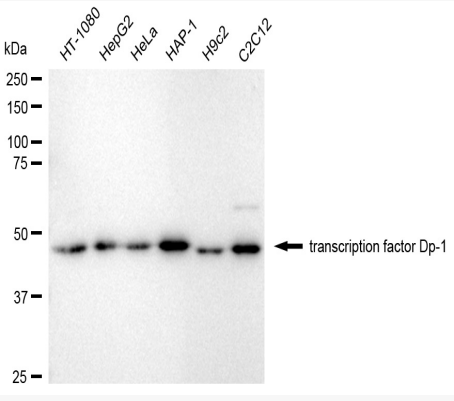
Validation of transcription factor Dp-1 knockdown using flow cytometry. Wild-type(WT, Blue) and knockdown(KD, Green) HeLa cells were stained with transcription factor Dp-1 antibody (R020906, 1:2,000) and analyzed using BD flow cytometer.



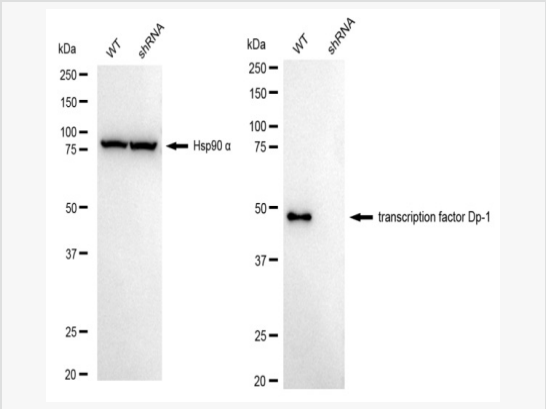
Flow cytometric analysis of transcription factor Dp-1 expression in C2C12 cells using transcription factor Dp-1 antibody (R020906, 1:2,000). Green, isotype control; red, transcription factor Dp-1.



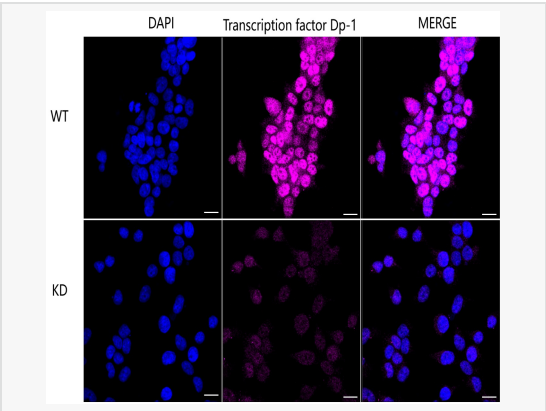
Immunocytochemical staining of C2C12 cells with Transcription factor Dp-1 antibody (R020906, 1:1,000) . Nuclei were stained blue with DAPI; Transcription factor Dp-1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Western blotting analysis using transcription factor Dp-1 antibody (R020906). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with transcription factor Dp-1 antibody (R020906, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Western blotting analysis using transcription factor Dp-1 antibody (R020906). Transcription factor Dp-1 expression in wild-type (WT) and transcription factor Dp-1 (TFDP1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with transcription factor Dp-1 antibody (R020906, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (1:20,000) respectively. Image was developed using ECL Substrate Kit.



Immunocytochemical staining of Hela cells using Transcription factor Dp-1 antibody (R020906, 1:1,000), Top panel: wild-type (WT); Bottom panal:Transcription factor Dp-1 shRNA knockdown (KD). Nuclei were stained blue with DAPI;Transcription factor Dp-1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.