

Product Name: KD-Validated Transcription Factor Dp-1 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVAb00833

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human,Mouse,Rat
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 45.1kDa

Antigen Information

Gene Name	TFDP1 TFDP1; Transcription Factor Dp-1; DRTF1; DP1; Dp-1; DILC; Down-Regulated In Liver Cancer
Alternative Names	Stem Cells; E2F Dimerization Partner 1; DRTF1-Polypeptide 1; E2F-Related Transcription Factor
Gene ID	7027.0
SwissProt ID	Q14186
Immunogen	A synthesized peptide derived from human DP1

Background

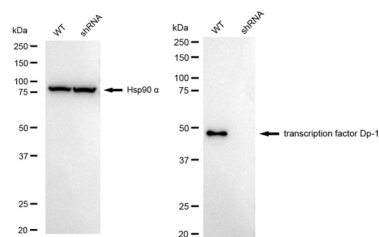
This gene encodes a member of a family of transcription factors that heterodimerize with E2F proteins to enhance their DNA-

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.[provided by RefSeq, Jan 2009]

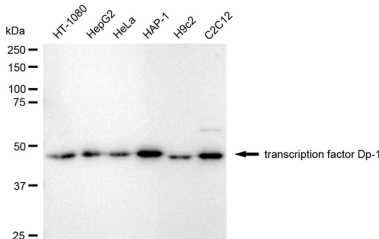
Research Area

Epigenetics and Nuclear Signaling, Stem Cells

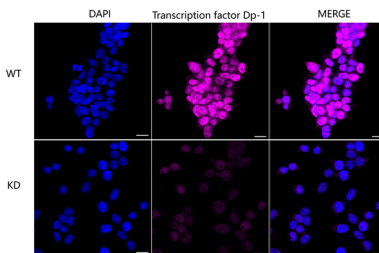
Image Data



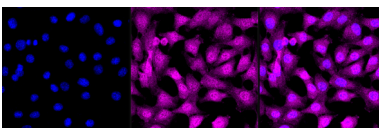
Western blotting analysis using transcription factor Dp-1 antibody (KVA00833). Transcription factor Dp-1 expression in wild-type (WT) and transcription factor Dp-1 (TFDP1) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with transcription factor Dp-1 antibody (KVA00833, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



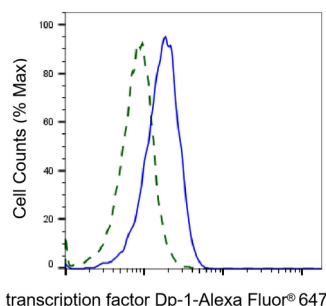
Western blotting analysis using transcription factor Dp-1 antibody (KVA00833). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with transcription factor Dp-1 antibody (KVA00833, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



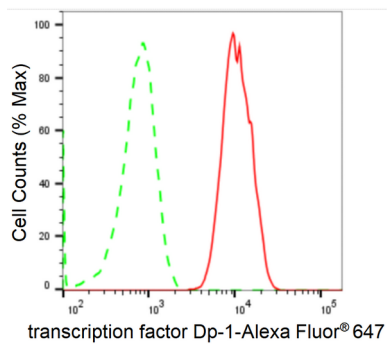
Immunocytochemical staining of HeLa cells using Transcription factor Dp-1 antibody (KVA00833, 1:1,000). Top panel: wild-type (WT); Bottom panel: Transcription factor Dp-1 shRNA knockdown (KD). Nuclei were stained blue with DAPI; Transcription factor Dp-1 was stained magenta with Alexa Fluor® 647. Scale bar, 20 µm. Permeabilization: Triton.



Immunocytochemical staining of C2C12 cells with Transcription factor Dp-1 antibody (KVA00833, 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.



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 (KVA00833, 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 (KVA00833, 1:2,000). Green, isotype control; red, transcription factor Dp-1.