

### KD-Validated Anti-Transcription Factor Dp-1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody Catalog # AGI1768

### **Specification**

# KD-Validated Anti-Transcription Factor Dp-1 Rabbit Monoclonal Antibody - Product Information

Application WB, FC Primary Accession 014186

Reactivity Rat, Human, Mouse

Clonality Monoclonal Isotype Rabbit IgG

Calculated MW Predicted, 45 kDa , observed , 49 kDa KDa

Gene Name TFDP1

Aliases 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** 

Immunogen A synthesized peptide derived from human

DP1

# KD-Validated Anti-Transcription Factor Dp-1 Rabbit Monoclonal Antibody - Additional Information

Gene ID 7027

**Other Names** 

Transcription factor Dp-1, DRTF1-polypeptide 1, DRTF1, E2F dimerization partner 1, TFDP1, DP1

# **KD-Validated Anti-Transcription Factor Dp-1 Rabbit Monoclonal Antibody - Protein Information**

Name TFDP1

Synonyms DP1

#### **Function**

Can stimulate E2F-dependent transcription. Binds DNA cooperatively with E2F family members through the E2 recognition site, 5'-TTTC[CG]CGC-3', found in the promoter region of a number of genes whose products are involved in cell cycle regulation or in DNA replication (PubMed:<a href="http://www.uniprot.org/citations/7739537" target="\_blank">7739537</a>, PubMed:<a href="http://www.uniprot.org/citations/8405995" target="\_blank">8405995</a>). The E2F1:DP complex appears to mediate both cell proliferation and apoptosis. Blocks adipocyte differentiation by repressing CEBPA binding to its target gene promoters (PubMed:<a href="http://www.uniprot.org/citations/20176812" target=" blank">20176812</a>).

# **Cellular Location**

Nucleus {ECO:0000250|UniProtKB:Q08639}. Cytoplasm {ECO:0000250|UniProtKB:Q08639}.



Note=Shuttles between the cytoplasm and nucleus and translocates into the nuclear compartment upon heterodimerization with E2F1. {ECO:0000250|UniProtKB:Q08639}

#### **Tissue Location**

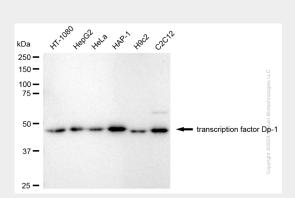
Highest levels in muscle. Also expressed in brain, placenta, liver and kidney. Lower levels in lung and pancreas. Not detected in heart

## KD-Validated Anti-Transcription Factor Dp-1 Rabbit Monoclonal Antibody - Protocols

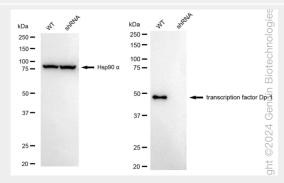
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

### KD-Validated Anti-Transcription Factor Dp-1 Rabbit Monoclonal Antibody - Images

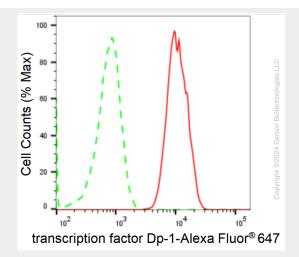


Western blotting analysis using anti-transcription factor Dp-1 antibody (Cat#AGI1768). Total cell lysates (30  $\mu$ g) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-transcription factor Dp-1 antibody (Cat#AGI1768, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-transcription factor Dp-1 antibody (Cat#AGI1768). Transcription factor Dp-1 expression in wild-type (WT) and transcription factor Dp-1 (TFDP1) shRNA knockdown (KD) HeLa cells with 30  $\mu$ g of total cell lysates. Hsp90  $\alpha$  serves as a loading control. The blot was incubated with anti-transcription factor Dp-1 antibody (Cat#AGI1768, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.





Flow cytometric analysis of transcription factor Dp-1 expression in C2C12 cells using anti-transcription factor Dp-1 antibody (Cat#AGI1768, 1:2,000). Green, isotype control; red, transcription factor Dp-1.