

# TFDP1 antibody - middle region

Rabbit Polyclonal Antibody Catalog # AI16198

#### **Product Information**

Application WB Primary Accession Q14186

Other Accession NM\_007111, NP\_009042
Reactivity Human, Mouse, Bovine

**Predicted** Human, Mouse, Chicken, Bovine

Host Rabbit
Clonality Polyclonal
Calculated MW 45070

#### **Additional Information**

**Gene ID** 7027

Alias Symbol DP1, DRTF1, Dp-1

Other Names Transcription factor Dp-1, DRTF1-polypeptide 1, DRTF1, E2F dimerization

partner 1, TFDP1, DP1

Format Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium

azide and 2% sucrose.

**Reconstitution & Storage** Add 50 ul of distilled water. Final anti-TFDP1 antibody concentration is 1

mg/ml in PBS buffer with 2% sucrose. For longer periods of storage, store at

20°C. Avoid repeat freeze-thaw cycles.

**Precautions** TFDP1 antibody - middle region is for research use only and not for use in

diagnostic or therapeutic procedures.

#### **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: 7739537, PubMed: 8405995). 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:20176812).

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

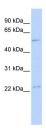
## **Background**

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. The DP2/E2F complex functions in the control of cell-cycle progression from G1 to S phase. The E2F1/DP complex appears to mediate both cell proliferation and apoptosis.

#### References

Helin K.,et al.Genes Dev. 7:1850-1861(1993).
Ota T.,et al.Nat. Genet. 36:40-45(2004).
Dunham A.,et al.Nature 428:522-528(2004).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Bandara L.R.,et al.EMBO J. 13:3104-3114(1994).

### **Images**



WB Suggested Anti-TFDP1 Antibody Titration: 0.2-1 µg/ml

ELISA Titer: 1:62500

Positive Control: MCF7 cell lysate

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.