

## Product datasheet for **AP06089PU-N**

### DP1 (TFDP1) Rabbit Polyclonal Antibody

#### Product data:

|                         |   |
|-------------------------|---|
| Product Type:           | Primary Antibodies  |
| Applications:           | ELISA, IF, IHC, WB  |
| Recommended Dilution:   | <b>Western blot:</b> 1/500-1/1000.<br><b>Immunohistochemistry on Paraffin sections:</b> 1/50-1/200.<br><b>Immunofluorescence:</b> 1/50-1/200. |
| Reactivity:             | Human   |
| Host:                   | Rabbit  |
| Clonality:              | Polyclonal  |
| Specificity:            | This antibody detects endogenous levels of DP-1/TFDP1 protein (region surrounding Val393).  |
| Formulation:            | Phosphate buffered saline (PBS), pH 7.2.<br>State: Aff - Purified<br>State: Liquid purified Ig fraction<br>Preservative: 0.05% Sodium azide   |
| Concentration:          | 1.0 mg/ml   |
| Purification:           | Affinity chromatography using epitope-specific immunogen (> 95% pure by SDS-PAGE)   |
| Conjugation:            | Unconjugated  |
| Storage:                | Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer.<br>Avoid repeated freezing and thawing.                          |
| Stability:              | Shelf life: one year from despatch.   |
| Predicted Protein Size: | ~55 kDa   |
| Gene Name:              | transcription factor Dp-1   |
| Database Link:          | <a href="#">Entrez Gene 7027 Human Q14186</a>   |



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**Background:**

The human retinoblastoma gene product appears to play an important role in the negative regulation of cell proliferation. Functional inactivation of Rb can be mediated either through mutation or as a consequence of interaction with DNA tumor virus-encoded proteins. Of all the Rb associations described to date, the identification of a complex between Rb and the transcription factor E2F most directly implicates Rb in regulation of cell proliferation. E2F was originally identified through its role in transcriptional activation of the adenovirus E2 promoter. Sequences homologous to the E2F binding site have been found upstream of a number of genes that encode proteins with putative functions in the G1 and S phases of the cell cycle.

E2F-1 forms heterodimers with a second protein, designated DP-1, forming an “active” E2F transcriptional regulatory complex.

**Synonyms:**

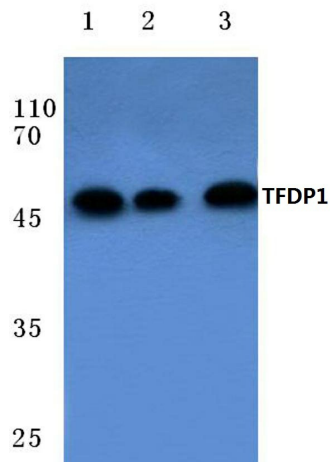
Transcription factor Dp-1, DP1, DRTF1

**Protein Families:**

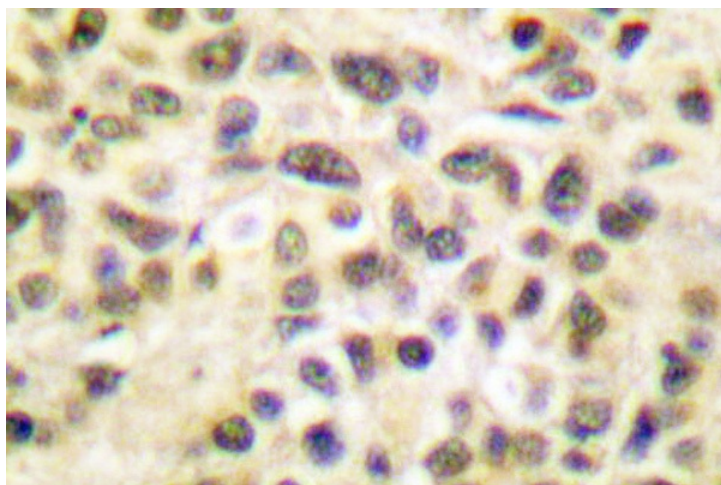
Druggable Genome, Transcription Factors

**Protein Pathways:**

Cell cycle, TGF-beta signaling pathway

**Product images:**

Western blot (WB) analysis of TFDP1 antibody (Cat.-No.: AP06089PU-N) at 1/500 dilution Lane 1:HEK293T cell lysate Lane 2:Mouse heart tissue lysate Lane 3:PC12 cell lysate



Immunohistochemical analysis in paraffin-embedded human breast carcinoma tissue using TFDP1 antibody (Cat.-No. AP06089PU-N).