

**Transcription factor E2F1 (aa314-327) Antibody (internal region)**  
Peptide-affinity purified goat antibody  
Catalog # AF4033a

**Specification**

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**Transcription factor E2F1 (aa314-327) Antibody (internal region) - Product Information**

Application	WB
Primary Accession	<a href="#">O01094</a>
Other Accession	<a href="#">NP_005216.1</a> , <a href="#">1869</a>
Reactivity	Human
Host	Goat
Clonality	Polyclonal
Concentration	0.5 mg/ml
Isotype	IgG
Calculated MW	46920

**Transcription factor E2F1 (aa314-327) Antibody (internal region) - Additional Information**

Gene ID 1869

**Other Names**

Transcription factor E2F1, E2F-1, PBR3, Retinoblastoma-associated protein 1, RBAP-1, Retinoblastoma-binding protein 3, RBBP-3, pRB-binding protein E2F-1, E2F1, RBBP3

**Format**

0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Transcription factor E2F1 (aa314-327) Antibody (internal region) is for research use only and not for use in diagnostic or therapeutic procedures.

**Transcription factor E2F1 (aa314-327) Antibody (internal region) - Protein Information**

**Name** E2F1 {ECO:0000303|PubMed:8964493, ECO:0000312|HGNC:HGNC:3113}

**Function**

Transcription activator that binds DNA cooperatively with DP proteins 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/10675335" target="\_blank">10675335</a>, PubMed:<a href="http://www.uniprot.org/citations/12717439" target="\_blank">12717439</a>, PubMed:<a href="http://www.uniprot.org/citations/17050006" target="\_blank">17050006</a>, PubMed:<a

[17704056](http://www.uniprot.org/citations/17704056), PubMed: [18625225](http://www.uniprot.org/citations/18625225), PubMed: [28992046](http://www.uniprot.org/citations/28992046)). The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase (PubMed: [10675335](http://www.uniprot.org/citations/10675335), PubMed: [12717439](http://www.uniprot.org/citations/12717439), PubMed: [17704056](http://www.uniprot.org/citations/17704056)). E2F1 binds preferentially RB1 in a cell-cycle dependent manner (PubMed: [10675335](http://www.uniprot.org/citations/10675335), PubMed: [12717439](http://www.uniprot.org/citations/12717439), PubMed: [17704056](http://www.uniprot.org/citations/17704056)). It can mediate both cell proliferation and TP53/p53- dependent apoptosis (PubMed: [8170954](http://www.uniprot.org/citations/8170954)). Blocks adipocyte differentiation by binding to specific promoters repressing CEBPA binding to its target gene promoters (PubMed: [20176812](http://www.uniprot.org/citations/20176812)). Directly activates transcription of PEG10 (PubMed: [17050006](http://www.uniprot.org/citations/17050006), PubMed: [18625225](http://www.uniprot.org/citations/18625225), PubMed: [28992046](http://www.uniprot.org/citations/28992046)). Positively regulates transcription of RRP1B (PubMed: [20040599](http://www.uniprot.org/citations/20040599)).

#### Cellular Location

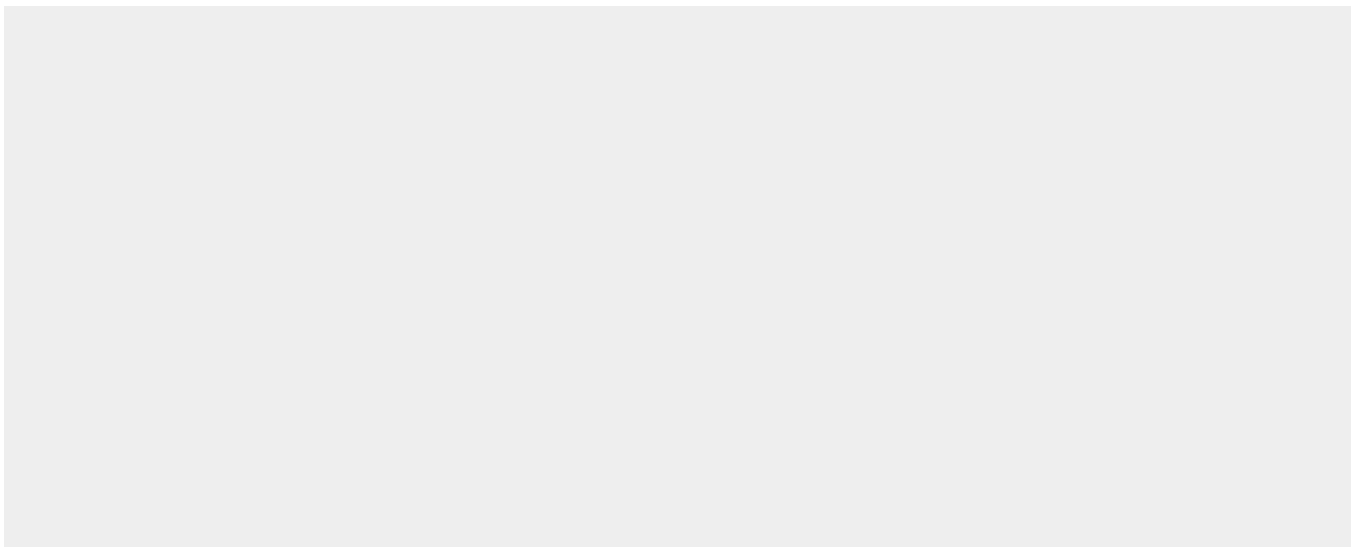
Nucleus

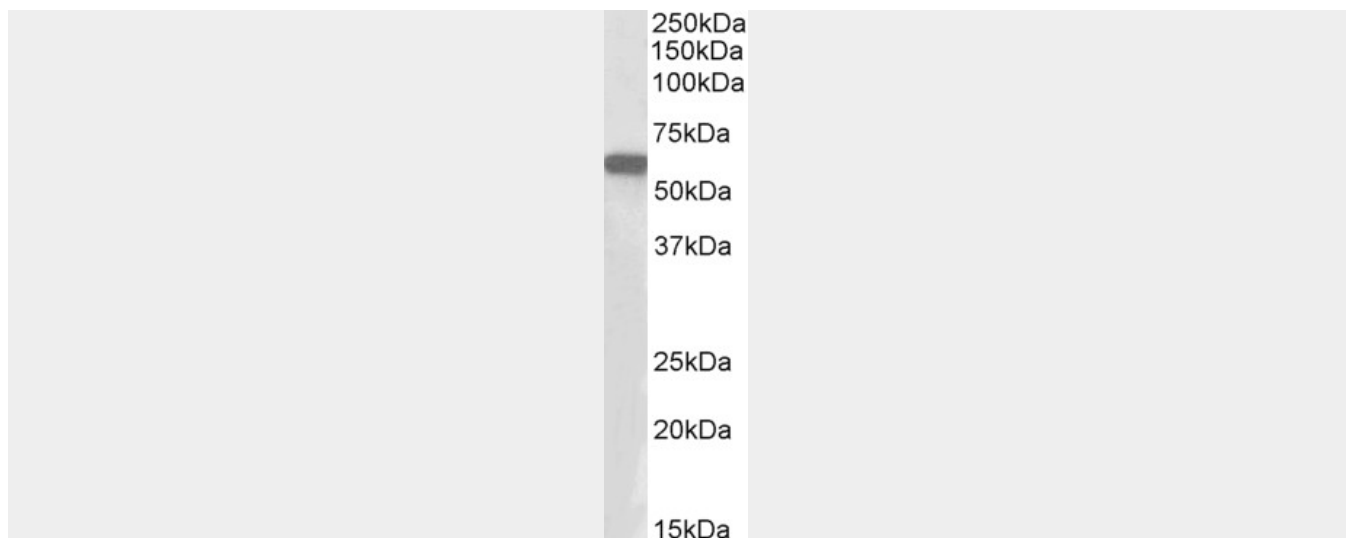
#### Transcription factor E2F1 (aa314-327) Antibody (internal region) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### Transcription factor E2F1 (aa314-327) Antibody (internal region) - Images





AF4033a (1  $\mu\text{g/ml}$ ) staining of HeLa nuclear lysate (35  $\mu\text{g}$  protein in RIPA buffer). Primary incubation was 1 hour. Detected by chemiluminescence.

#### **Transcription factor E2F1 (aa314-327) Antibody (internal region) - References**

c-Myc and E2F1 drive PBK/TOPK expression in high-grade malignant lymphomas. Hu F, Gartenhaus RB, Zhao XF, Fang HB, Minkove S, Poss DE, Rapoport AP. *Leukemia research* 2013 Apr 37 (4): 447-54. PMID: 23237560