

**E2F-1 Antibody**  
**Purified Mouse Monoclonal Antibody (Mab)**  
**Catalog # AP52849****Specification**

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**E2F-1 Antibody - Product Information**

Application	IP, WB, ICC
Primary Accession	<a href="#">O01094</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	70 KDa

**E2F-1 Antibody - Additional Information****Gene ID** 1869**Other Names**

Dmel\CG6376 ; Dmel\_CG6376 ; drosE2F1 ; E(Sev-CycE)3A ; E(var)3-93E ; E2-promoter binding facto ; E2F 1 ; E2F transcription factor 1 ; E2F-1 ; E2f-PA ; E2f-PB ; E2f-PC ; E2F1 ; E2f1 E2F transcription factor 1 ; E2F1\_HUMAN ; Evar(3)164 ; KIAA4009 ; I(3)07172 ; I(3)j3B1 ; I(3)j3C2 ; I(3)rM729 ; mKIAA4009 ; OTTHUMP00000030661 ; PBR3 ; PRB binding protein E2F 1 ; PRB-binding protein E2F-1 ; RBAP 1 ; RBAP-1 ; RBAP1 ; RBBP-3 ; RBBP3 ; RBP 3 ; RBP3 ; Retinoblastoma-associated protein 1 ; Retinoblastoma-binding protein 3 ; Transcription factor E2F1.

**Dilution**

IP~~1:500  
WB~~1:500  
ICC~~1:100

**Format**

Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.

**Storage**

Store at -20 °C.Stable for 12 months from date of receipt

**E2F-1 Antibody - 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

[12717439](http://www.uniprot.org/citations/12717439), PubMed: [17050006](http://www.uniprot.org/citations/17050006), PubMed: [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

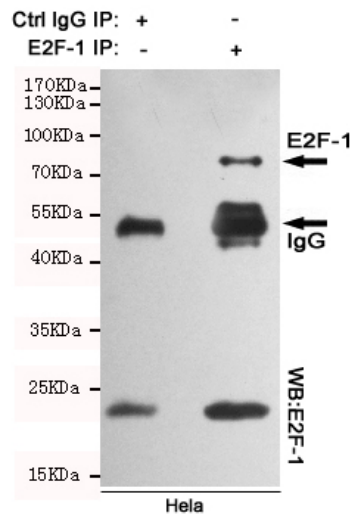
#### E2F-1 Antibody - Protocols

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

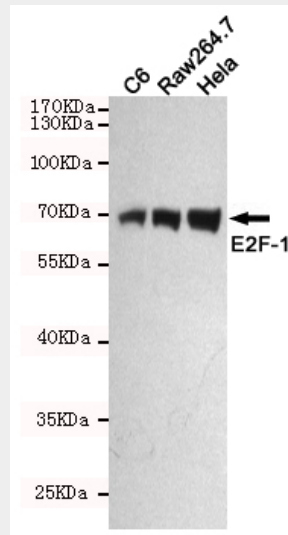
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

#### E2F-1 Antibody - Images

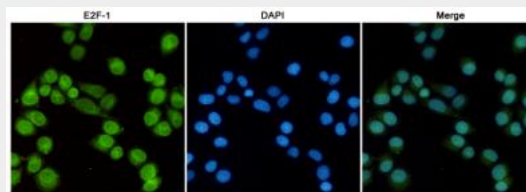




Immunoprecipitation analysis of HeLa cell lysates using E2F-1 mouse mAb.



Western blot detection of E2F-1 in C6, Raw264.7 and HeLa cell lysates using E2F-1 mouse mAb (1:500 diluted). Predicted band size: 70KDa. Observed band size: 70KDa.



Immunofluorescent analysis of HeLa cells fixed with 4% Paraformaldehyde and using anti-E2F-1 mouse mAb (dilution 1:100). DAPI was used to stain nucleus (blue).

### E2F-1 Antibody - Background

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. The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F1 binds preferentially RB1 in a cell-cycle dependent manner. It can mediate both cell proliferation and TP53/p53-dependent apoptosis.

**E2F-1 Antibody - References**

- Helin K.,et al.Cell 70:337-350(1992).  
Kaelin W.G. Jr.,et al.Cell 70:351-364(1992).  
Shan B.,et al.Mol. Cell. Biol. 12:5620-5631(1992).  
Neuman E.,et al.Gene 173:163-169(1996).  
Deloukas P.,et al.Nature 414:865-871(2001).