

# E2F-1 Antibody

Purified Mouse Monoclonal Antibody (Mab)

Catalog # AP52849

## Product Information

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<b>Application</b>	WB, ICC, IP
<b>Primary Accession</b>	<a href="#">Q01094</a>
<b>Reactivity</b>	Human
<b>Host</b>	Mouse
<b>Clonality</b>	Monoclonal
<b>Isotype</b>	IgG2b
<b>Calculated MW</b>	46920

## Additional Information

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<b>Gene ID</b>	1869
<b>Other Names</b>	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.
<b>Dilution</b>	WB~~1:500 ICC~~1:100 IP~~1:500
<b>Format</b>	Purified mouse monoclonal antibody in PBS(pH 7.4) containing with 0.09% (W/V) sodium azide and 50% glycerol.
<b>Storage</b>	Store at -20 °C. Stable for 12 months from date of receipt

## Protein Information

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<b>Name</b>	E2F1 {ECO:0000303   PubMed:8964493, ECO:0000312   HGNC:HGNC:3113}
<b>Function</b>	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="#">10675335</a> , PubMed: <a href="#">12717439</a> , PubMed: <a href="#">17050006</a> , PubMed: <a href="#">17704056</a> , PubMed: <a href="#">18625225</a> , PubMed: <a href="#">28992046</a> ). The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase (PubMed: <a href="#">10675335</a> , PubMed: <a href="#">12717439</a> , PubMed: <a href="#">17704056</a> ). E2F1 binds preferentially RB1 in a cell-cycle dependent manner (PubMed: <a href="#">10675335</a> , PubMed: <a href="#">12717439</a> , PubMed: <a href="#">17704056</a> ). It can mediate both cell proliferation and TP53/p53-

dependent apoptosis (PubMed:[8170954](#)). Blocks adipocyte differentiation by binding to specific promoters repressing CEBPA binding to its target gene promoters (PubMed:[20176812](#)). Directly activates transcription of PEG10 (PubMed:[17050006](#), PubMed:[18625225](#), PubMed:[28992046](#)). Positively regulates transcription of RRP1B (PubMed:[20040599](#)).

## Cellular Location

Nucleus

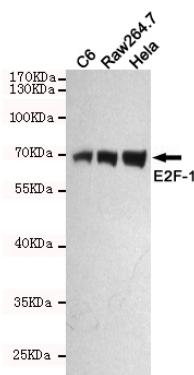
## Background

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.

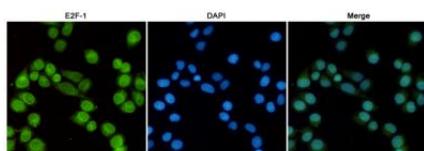
## References

- 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).

## Images

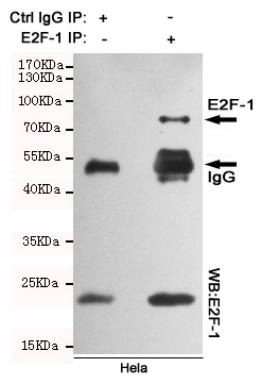


Western blot detection of E2F-1 in C6,Raw264.7 and Hela cell lysates using E2F-1 mouse mAb (1:500 diluted).Predicted band size:70KD. Observed band size:70KD.



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).

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



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