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

Specification

E2F-1 Antibody - Product Information

Application	**WB, ICC, IP**
Primary Accession	Q01094
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 ; l(3)07172 ; l(3)j3B1 ; l(3)j3C2 ; l(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
WB~~1:500
ICC~~1:100
IP~~1:500

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:10675335, PubMed:<a

href="http://www.uniprot.org/citations/12717439" target="_blank">12717439, PubMed:17050006, PubMed:17704056, PubMed:18625225, PubMed:28992046). The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase (PubMed:10675335, PubMed:12717439, PubMed:17704056). E2F1 binds preferentially RB1 in a cell-cycle dependent manner (PubMed:10675335, PubMed:12717439, PubMed:17704056). 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

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 Cytomety
- Cell Culture

E2F-1 Antibody - Images

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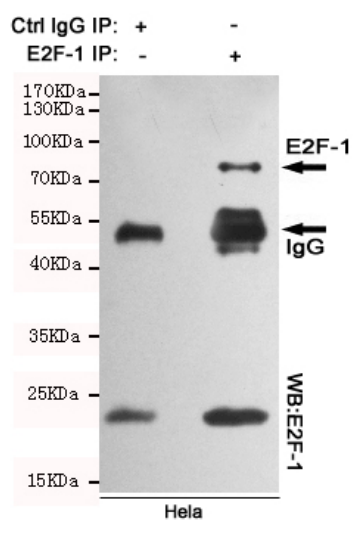
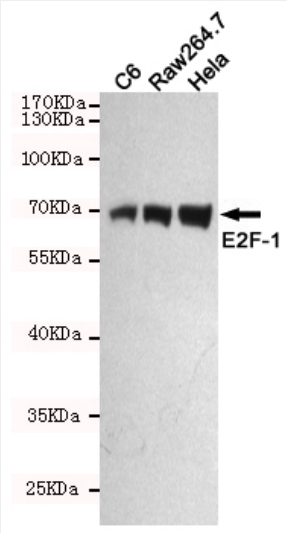
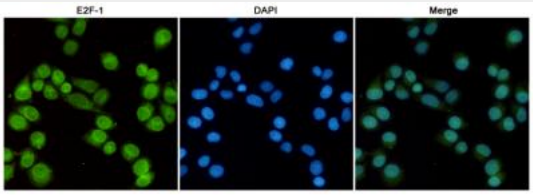


Immunoprecipitation analysis of Hela cell lysates using E2F-1 mouse mAb.



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).
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Shan B.,et al.Mol. Cell. Biol. 12:5620-5631(1992).
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Deloukas P.,et al.Nature 414:865-871(2001).