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E2F-1 Antibody

Purified Mouse Monoclonal Antibody (Mab)
Catalog # AP52849

Product Information

Application	WB, ICC, IP
Primary Accession	Q01094
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG2b
Calculated MW	46920

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	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide, pH 7.3.
Storage	Store at 4°C short term. Aliquot and store at -20°C long term. Avoid freeze/thaw cycles.

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: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

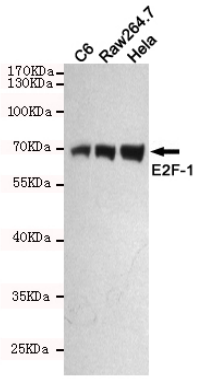
Background

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.

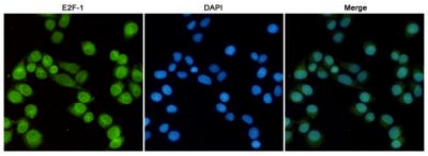
References

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

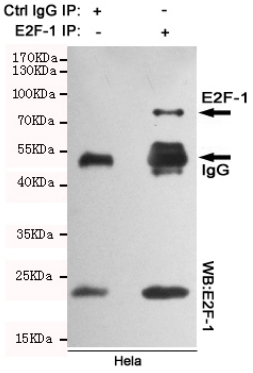


Western blot detection of E2F-1 in C6,Raw264.7 and Hela cell lysates using E2F-1 mouse mAb (1:500 diluted).Predicted band size:70KDa.Observed band size:70KDa.



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).

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



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