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KD-Validated Anti-E2F transcription factor 1 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1572

Product Information

Application	WB, FC, ICC
Primary Accession	Q01094
Reactivity	Rat, Human, Mouse
Clonality	Monoclonal
Isotype	Rabbit IgG
Clone Names	23GB1505
Calculated MW	46920
Gene Name	E2F1
Aliases	E2F1; E2F Transcription Factor 1; RBBP3; RBP3; Retinoblastoma-Binding Protein 3 (E2F-Like); Retinoblastoma-Associated Protein 1; Retinoblastoma-Binding Protein 3; Transcription Factor E2F1; PRB-Binding Protein E2F-1; RBAP-1; RBBP-3; E2F-1; PBR3; RBAP1
Immunogen	A synthesized peptide derived from human E2F1

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

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

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