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

Rabbit monoclonal antibody
Catalog # AGI1572

Specification

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

Application	**WB, FC, ICC**
Primary Accession	Q01094
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 4 7 kDa , observed, 65 kDa KDa**
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**

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

KD-Validated Anti-E2F transcription factor 1 Rabbit Monoclonal 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: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).

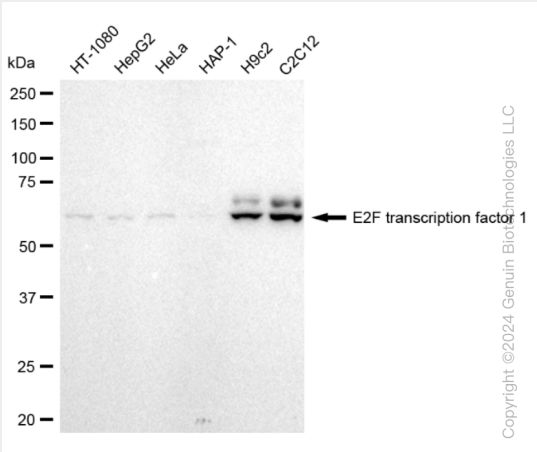
Cellular Location
Nucleus

KD-Validated Anti-E2F transcription factor 1 Rabbit Monoclonal 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

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



Western blotting analysis using anti-E2F transcription factor 1 antibody (Cat#AGI1572). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was

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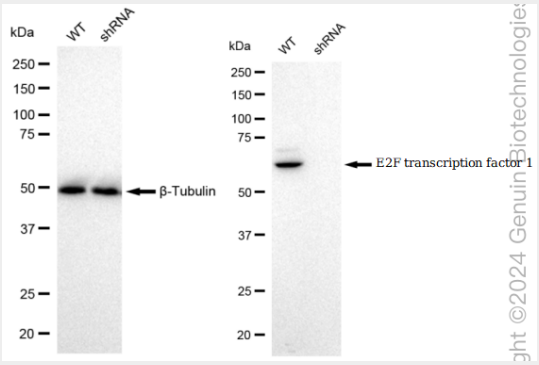
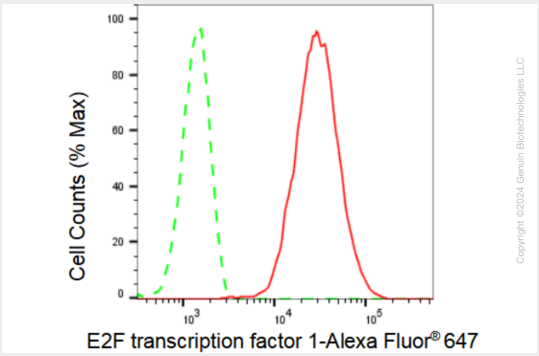
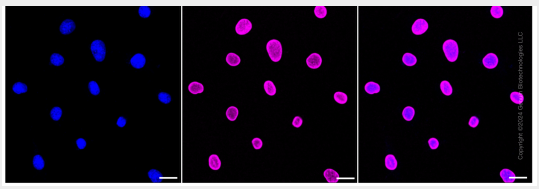
incubated with anti-E2F transcription factor 1 antibody (Cat#AGI1572, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-E2F transcription factor 1 antibody (Cat#AGI1572). E2F transcription factor 1 expression in wild type (WT) and E2F transcription factor 1 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with anti-E2F transcription factor 1 antibody (Cat#AGI1572, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Flow cytometric analysis of E2F transcription factor 1 expression in C2C12 cells using E2F transcription factor 1 antibody (Cat#AGI1572, 1:2,000). Green, isotype control; red, E2F transcription factor 1.



Immunocytochemical staining of C2C12 cells with E2F transcription factor 1 antibody (Cat#AGI1572, 1:1,000). Nuclei were stained blue with DAPI; E2F transcription factor 1 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: High. Scale bar: 20 µm.