Product datasheet

Anti-E2F1 Antibody

Catalog Number: *A00257-2*

BOSTER®
antibody and ELISA experts
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Basic Information

Product Name	Anti-E2F1 Antibody
Gene Name	E2F1
Source	Rabbit
Clonality	Polyclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, FCM, ELISA
Contents	500 ug/ml antibody with PBS, 0.02% NaN3, 1 mg/ml BSA and 50% glycerol.
Immunogen	E.coli-derived human E2F1 recombinant protein (Position: K89-A328).
Concentration	500 ug/ml
Purification	Immunogen affinity purified.
Observed MW	60-70 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Flow Cytometry (Fixed): 1:50-200 Enzyme linked immunosorbent assay (ELISA):1:100-1000

Storage

12 months from date of receipt，-20℃ as supplied.

Background Information

Transcription factor E2F1 is a protein that in humans is encoded by the E2F1 gene. The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family of transcription factors appears to play a critical role in the transcription of certain genes required for cell cycle progression. E2F1, the first cloned member of this family, is regulated during the cell cycle at the mRNA level by changes in transcription of the E2F1 gene and at the protein level by complex formation with proteins such as the retinoblastoma gene product(pRB), cyclin A and DP1. E2F1 can override a pRB-induced G1/S block and can behave as an oncogene in certain cells. E2F1 was cloned and was found to contain seven exons. Fluorescence in situ hybridization localized E2F1 to chromosome 20q11. The E2F1 transcription factor can promote proliferation or apoptosis when activated, and is a key downstream target of the retinoblastoma tumour suppressor protein(pRB).

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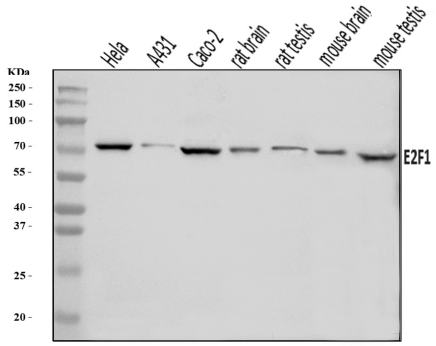
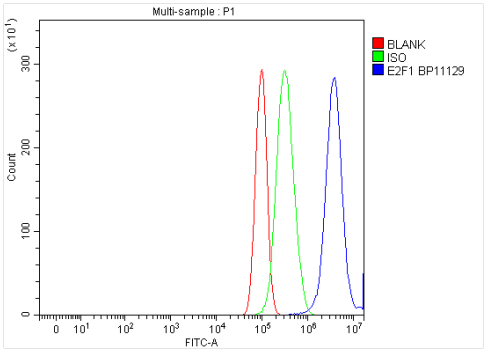
Reference

Anti-E2F1 Antibody被引用在2文献中。

Selected Validation Data



Western blot analysis of E2F1 using anti-E2F1 antibody (A00257-2). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: Hela whole cell lysates,
Lane 2: A431 whole cell lysates,
Lane 3: Caco-2 whole cell lysates,
Lane 4: rat brain tissue lysates,
Lane 5: rat testis tissue lysates,
Lane 6: mouse brain tissue lysates,
Lane 7: mouse testis tissue lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-E2F1 antigen affinity purified polyclonal antibody (A00257-2) at a dilution of 1:1000 and probed with a goat anti-rabbit IgG-HRP secondary antibody (Catalog # BA1054). The signal is developed using ECL Plus Western Blotting Substrate (Catalog # AR1197). A specific band was detected for E2F1 at approximately 60-70 kDa. The expected band size for E2F1 is at 47 kDa.



Flow Cytometry analysis of PC-3 cells using anti-E2F1 antibody (A00257-2).
Overlay histogram showing PC-3 cells stained with A00257-2 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-E2F1 Antibody (A00257-2) at 1:100 dilution for 30 min at 20°C. Fluoro488 conjugated goat anti-rabbit IgG (BA1127) was used as secondary antibody at 1:100 dilution for 30 minutes at 20°C. Isotype control antibody (Green line) was rabbit

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IgG at 1:100 dilution used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.

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