Anti-E2F1 Antibody (Clone#IGD-5)

Catalog Number: *BM4848*

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Basic Information

Product Name	Anti-E2F1 Antibody (Clone#IGD-5)
Gene Name	E2F1
Source	Rabbit
Clonality	Monoclonal
Isotype	IgG
Species Reactivity	human, mouse, rat
Tested Application	WB, IHC, ICC/IF, IP, FCM
Contents	500 ug/ml; Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide, 0.4-0.5 mg/ml BSA and 50% glycerol.
Immunogen	A synthesized peptide derived from human E2F1
Concentration	500 ug/ml
Purification	Affinity-chromatography
Observed MW	65-70 kDa
Dilution Ratios	Western blot (WB): 1:500-2000 Immunohistochemistry (IHC): 1:50-200 Immunocytochemistry/Immunofluorescence (ICC/IF):1:50-200 ImmunoPrecipitation (IP): 1:20 Flow Cytometry (FCM): 1:20

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

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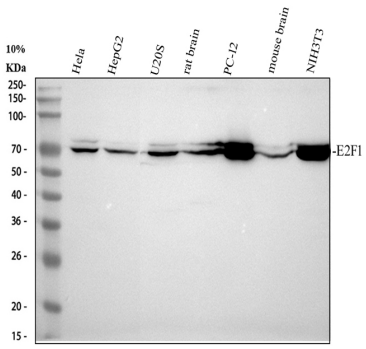
promote proliferation or apoptosis when activated, and is a key downstream target of the retinoblastoma tumour suppressor protein(pRB).

Reference

Anti-E2F1 Antibody (Clone#IGD-5)被引用在3文献中。

Selected Validation Data



Western blot analysis of E2F1 using anti-E2F1 antibody (BM4848). The sample well of each lane was loaded with 30 ug of sample under reducing conditions.
Lane 1: human Hela whole cell lysates,
Lane 2: human HepG2 whole cell lysates,
Lane 3: human U2OS whole cell lysates,
Lane 4: rat brain tissue lysates,
Lane 5: rat PC-12 whole cell lysates,
Lane 6: mouse brain tissue lysates,
Lane 7: mouse NIH/3T3 whole cell lysates.
After electrophoresis, proteins were transferred to a membrane. Then the membrane was incubated with rabbit anti-E2F1 antigen affinity purified monoclonal antibody (BM4848) 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 65-70 kDa. The expected band size for E2F1 is at 47 kDa.

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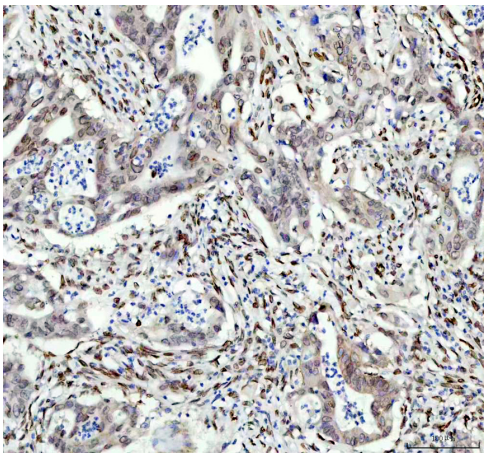
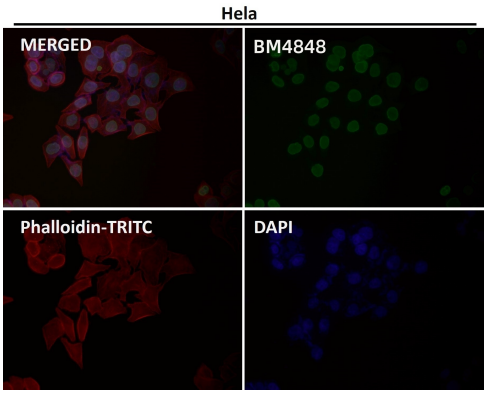


IHC analysis of E2F1 using anti-E2F1 antibody (BM4848).
E2F1 was detected in a paraffin-embedded section of human colon adenocarcinoma tissue. The tissue section was incubated with rabbit anti-E2F1 Antibody (BM4848) at a dilution of 1:200 and developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit (Catalog # SV0002) with DAB (Catalog # AR1027) as the chromogen.



Immunofluorescent analysis using the Antibody.