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E2F3 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14598c

Product Information

Application	WB, E
Primary Accession	O00716
Other Accession	O35261, NP_001940.1
Reactivity	Human, Mouse
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB34586
Calculated MW	49162
Antigen Region	151-180

Additional Information

Gene ID	1871
Other Names	Transcription factor E2F3, E2F-3, E2F3, KIAA0075
Target/Specificity	This E2F3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 151-180 amino acids from the Central region of human E2F3.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	E2F3 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	E2F3
Synonyms	KIAA0075
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. The DRTF1/E2F complex functions in the control of cell-cycle progression from G1 to S phase. E2F3 binds specifically to RB1 in a cell-cycle dependent manner. Inhibits adipogenesis, probably through the repression of CEBPA binding to its target gene promoters (By similarity).

Cellular Location Nucleus.

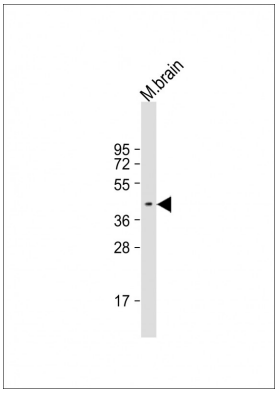
Background

The protein encoded by this gene is a member of the E2F family of transcription factors. The E2F family plays a crucial role in the control of cell cycle and action of tumor suppressor proteins and is also a target of the transforming proteins of small DNA tumor viruses. The E2F proteins contain several evolutionally conserved domains found in most members of the family. These domains include a DNA binding domain, a dimerization domain which determines interaction with the differentiation regulated transcription factor proteins (DP), a transactivation domain enriched in acidic amino acids, and a tumor suppressor protein association domain which is embedded within the transactivation domain. This protein and another 2 members, E2F1 and E2F2, have an additional cyclin binding domain. This protein binds specifically to retinoblastoma protein pRB in a cell-cycle dependent manner.

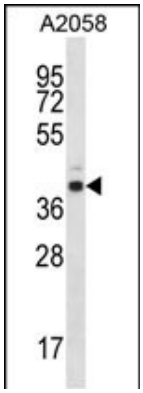
References

Revenko, A.S., et al. Mol. Cell. Biol. 30(22):5260-5272(2010)
Biswas, S., et al. Proc. Natl. Acad. Sci. U.S.A. 107(15):6976-6981(2010)
Martinez, L.A., et al. Mol. Cell. Biol. 30(2):524-536(2010)
Cunningham, J.M., et al. Br. J. Cancer 101(8):1461-1468(2009)
Madhavan, J., et al. Mol. Vis. 15, 235-240 (2009) :

Images



Anti-E2F3 Antibody (Center) at 1:1000 dilution + mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 49 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



E2F3 Antibody (Center) (Cat. #AP14598c) western blot analysis in A2058 cell line lysates (35ug/lane).This demonstrates the E2F3 antibody detected the E2F3 protein (arrow).

Citations

- Cell Specific Kaiso (ZBTB33) Regulation of Cell Cycle Through cyclin D1 and cyclin E1.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.