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E2F2 Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP10481C

Product Information

Application	WB, E
Primary Accession	Q14209
Other Accession	NP_004082.1
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB27633
Calculated MW	47506
Antigen Region	258-286

Additional Information

Gene ID	1870
Other Names	Transcription factor E2F2, E2F-2, E2F2
Target/Specificity	This E2F2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 258-286 amino acids from the Central region of human E2F2.
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	E2F2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	E2F2
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. E2F2 binds specifically to RB1 in a cell-cycle dependent manner.
Cellular Location	Nucleus.
Tissue Location	Highest level of expression is found in placenta, low levels are found in lung. Found as well in many immortalized cell lines derived from tumor samples

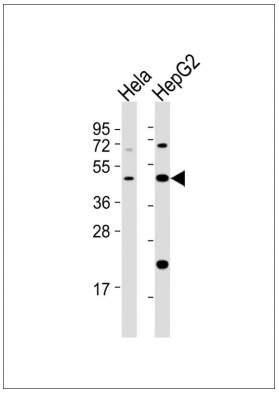
Background

E2F2 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 E2F3, have an additional cyclin binding domain. This protein binds specifically to retinoblastoma protein pRB in a cell-cycle dependent manner, and it exhibits overall 46% amino acid identity to E2F1. [provided by RefSeq].

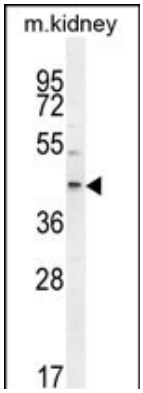
References

Revenko, A.S., et al. Mol. Cell. Biol. 30(22):5260-5272(2010)
Hayami, S., et al. Mol. Cancer 9, 59 (2010) :
Chen, J., et al. Cancer Causes Control 20(9):1769-1777(2009)
Cunningham, J.M., et al. Br. J. Cancer 101(8):1461-1468(2009)
Lal, A., et al. Mol. Cell 35(5):610-625(2009)

Images



All lanes : Anti-E2F2 Antibody (Center) at 1:2000 dilution Lane 1: Hela whole cell lysates Lane 2: HepG2 whole cell lysates Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution Predicted band size : 48 kDa Blocking/Dilution buffer: 5% NFDM/TBST.



E2F2 Antibody (Center) (Cat. #AP10481c) western blot analysis in mouse kidney tissue lysates (35ug/lane).This demonstrates the E2F2 antibody detected the E2F2 protein (arrow).