

E2F3 Antibody

Catalog # ASC11836

Product Information

Application	WB, IF, E, IHC-P
Primary Accession	O00716
Other Accession	NP_001940 , 4503433
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	IgG
Calculated MW	49162
Concentration (mg/ml)	1 mg/mL
Conjugate	Unconjugated
Application Notes	E2F3 antibody can be used for detection of E2F3 by Western blot at 1 - 2 μ g/ml. Antibody can also be used for Immunohistochemistry starting at 5 μ g/mL. For immunofluorescence start at 20 μ g/mL.

Additional Information

Gene ID	1871
Other Names	Transcription factor E2F3, E2F-3, E2F3, KIAA0075
Target/Specificity	E2F3; E2F3 antibody is human and mouse reactive. At least three isoforms of E2F3 are known to exist; this antibody will detect only the largest isoform. This antibody is predicted to not cross-react with other members of the E2F transcription factor family.
Reconstitution & Storage	E2F3 antibody can be stored at 4°C for three months and -20°C, stable for up to one year.
Precautions	E2F3 Antibody 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 E2F transcription factor 3 (E2F3) is a member of a small family of transcription factors that function through binding of DP interaction partner proteins. E2F3 recognizes a specific sequence motif in DNA and interacts directly with the retinoblastoma protein (pRB) to regulate the expression of genes involved in the cell cycle (1). Like the related E2F1 and E2F2, E2F3 is essential for cellular proliferation and progression through the cell cycle (2). Altered copy number and activity of this gene have been observed in a number of human cancers (3).

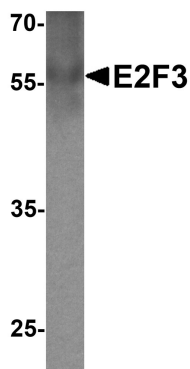
References

Lees JA, Saito M, Vidal M, et al. The retinoblastoma protein binds to a family of E2F transcription factors. *Mol. Cell. Biol.* 1993; 13:7813-25.

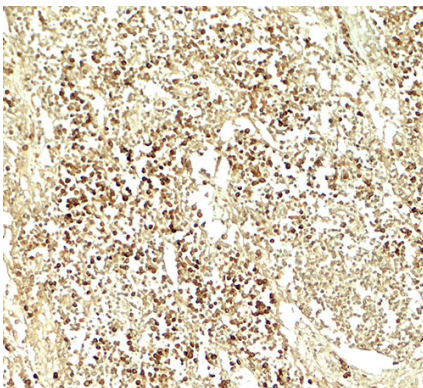
Wu L, Timmers C, Maiti B, et al. The E2F1-3 transcription factors are essential for cellular proliferation. *Nature* 2001; 414:457-62.

DeGregori J. The genetics of the E2F family of transcription factors: shared functions and unique roles. *Biochim. Biophys. Acta.* 2002; 1602:131-50.

Images

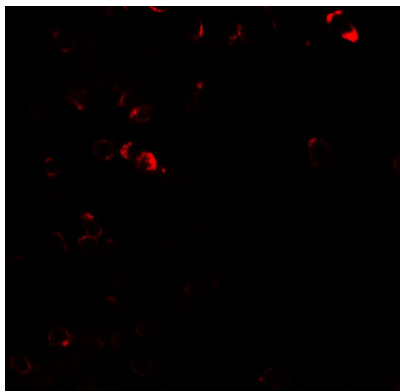


Western blot analysis of E2F3 in human lymph node tissue lysate with E2F3 antibody at 1 µg/ml.



Immunohistochemistry of E2F3 in human lymph node tissue with E2F3 antibody at 5 µg/ml.

Immunofluorescence of E2F3 in human lymph node tissue with E2F3 antibody at 20 µg/ml.



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