10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

E2F3 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant E2F3.
Catalog # AT1834a

Product Information

Application	WB, E
Primary Accession	O00716
Other Accession	NM_001949
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG1 Kappa
Clone Names	5F7
Calculated MW	49162

Additional Information

Gene ID	1871
Other Names	Transcription factor E2F3, E2F-3, E2F3, KIAA0075
Target/Specificity	E2F3 (NP_001940, 336 a.a. ~ 425 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	E2F3 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

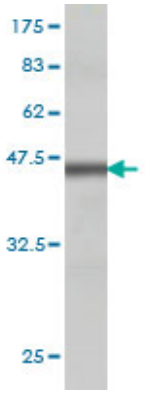
Background

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.

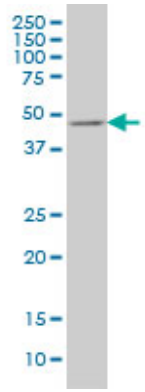
References

Hypoxia inducible microRNA 210 attenuates keratinocyte proliferation and impairs closure in a murine model of ischemic wounds. Biswas S, et al. Proc Natl Acad Sci U S A, 2010 Apr 13. PMID 20308562.E2F3 is a mediator of DNA damage-induced apoptosis. Martinez LA, et al. Mol Cell Biol, 2010 Jan. PMID 19917728.Cell cycle genes and ovarian cancer susceptibility: a tagSNP analysis. Cunningham JM, et al. Br J Cancer, 2009 Oct 20. PMID 19738611.KIF14 and E2F3 mRNA expression in human retinoblastoma and its phenotype association. Madhavan J, et al. Mol Vis, 2009. PMID 19190782.MicroRNA-128 inhibits glioma cells proliferation by targeting transcription factor E2F3a. Zhang Y, et al. J Mol Med, 2009 Jan. PMID 18810376.

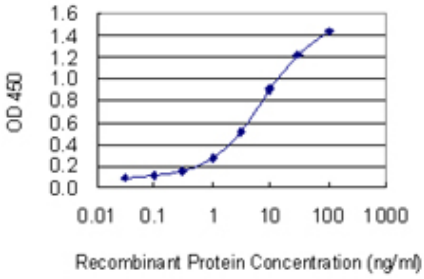
Images



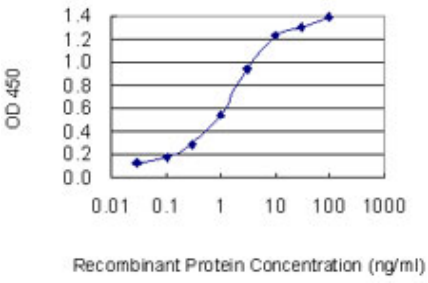
Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.01 KDa) .



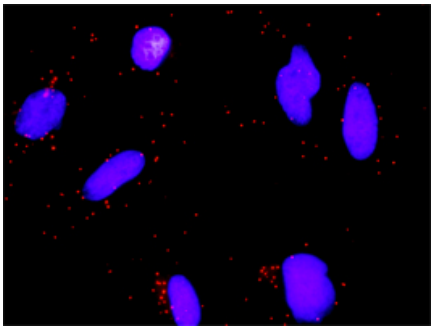
E2F3 monoclonal antibody (M01), clone 5F7 Western Blot analysis of E2F3 expression in COLO 320 HSR ((Cat # AT1834a)



Detection limit for recombinant GST tagged E2F3 is 0.1 ng/ml as a capture antibody.



Detection limit for recombinant GST tagged E2F3 is 0.03 ng/ml as a capture antibody.



Proximity Ligation Analysis of protein-protein interactions between MSH2 and E2F3 HeLa cells were stained with anti-MSH2 rabbit purified polyclonal 1:1200 and anti-E2F3 mouse monoclonal antibody 1:50. Each red dot represents the detection of protein-protein interaction complex, and nuclei were counterstained with DAPI (blue).