

E2F3 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant E2F3.****Catalog # AT1834a****Specification**

E2F3 Antibody (monoclonal) (M01) - Product Information

Application	WB, E
Primary Accession	O00716
Other Accession	NM_001949
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG1 Kappa
Calculated MW	49162

E2F3 Antibody (monoclonal) (M01) - 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.

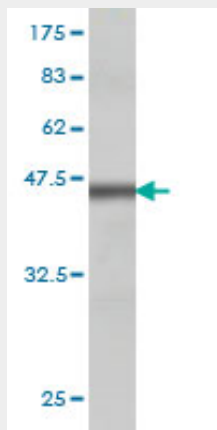
E2F3 Antibody (monoclonal) (M01) - Protocols

Provided below are standard protocols that you may find useful for product applications.

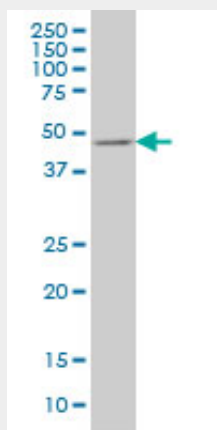
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)

- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

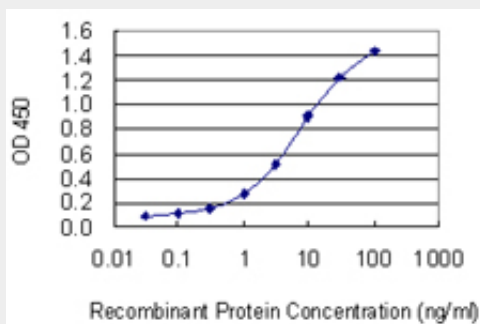
E2F3 Antibody (monoclonal) (M01) - Images



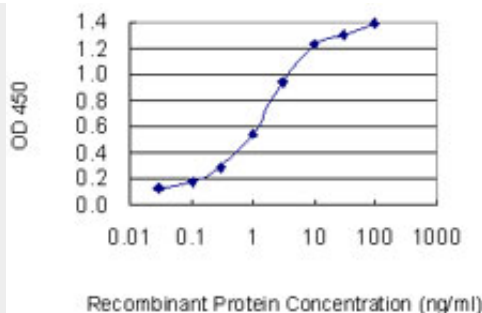
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.01 kDa) .



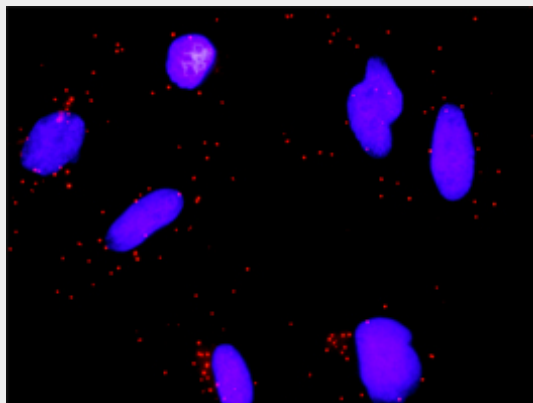
E2F3 monoclonal antibody (M01), clone 5F7 Western Blot analysis of E2F3 expression in COLO 320 HSR ((Cat # AT1834a)



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).

E2F3 Antibody (monoclonal) (M01) - 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.

E2F3 Antibody (monoclonal) (M01) - 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.