

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** 000716 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. \sim 425 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Dilution

WB~~1:500~1000

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

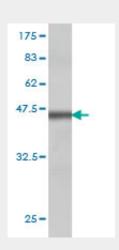
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry

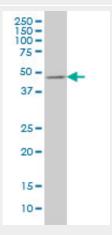


- Immunofluorescence
- <u>Immunoprecipitation</u>
- Flow Cytomety
- Cell Culture

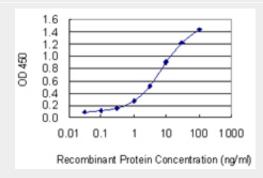
E2F3 Antibody (monoclonal) (M01) - Images



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

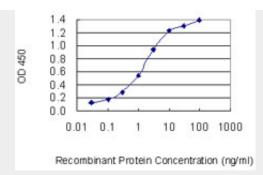


E2F3 monoclonal antibody (M01), clone 5F7 Western Blot analysis of E2F3 expression in COLO 320 HSR ((Cat # AT1834a)

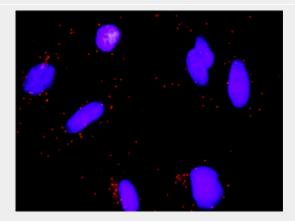


Detection limit for recombinant GST tagged E2F3 is 0.1 ng/ml as a capture antibody.





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.