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E2F6 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a full length recombinant E2F6.
Catalog # AT1837a

Product Information

Application	WB
Primary Accession	O75461
Other Accession	BC008348
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a kappa
Clone Names	2B6-G9
Calculated MW	31844

Additional Information

Gene ID	1876
Other Names	Transcription factor E2F6, E2F-6, E2F6
Target/Specificity	E2F6 (AAH08348, 1 a.a. ~ 281 a.a) full-length 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	E2F6 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

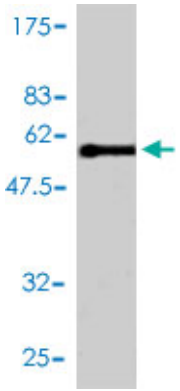
Background

This gene encodes a member of the E2F transcription factor protein family. E2F family members play a crucial role in control of the cell cycle and of the action of tumor suppressor proteins. They are also a target of the transforming proteins of small DNA tumor viruses. Many E2F proteins contain several evolutionarily conserved domains: 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. The encoded protein of this gene is atypical because it lacks the transactivation and tumor suppressor protein association domains. It contains a modular suppression domain and is an inhibitor of E2F-dependent transcription. The protein is part of a multimeric protein complex that contains a histone methyltransferase and the transcription factors Mga and Max. Multiple transcript variants have been reported for this gene, but it has not been clearly demonstrated that they encode valid isoforms.

References

Cell cycle genes and ovarian cancer susceptibility: a tagSNP analysis. Cunningham JM, et al. Br J Cancer, 2009 Oct 20. PMID 19738611.E2F6 inhibits cobalt chloride-mimetic hypoxia-induced apoptosis through E2F1. Yang WW, et al. Mol Biol Cell, 2008 Sep. PMID 18562691.A comprehensive ChIP-chip analysis of E2F1, E2F4, and E2F6 in normal and tumor cells reveals interchangeable roles of E2F family members. Xu X, et al. Genome Res, 2007 Nov. PMID 17908821.E2F-6 suppresses growth-associated apoptosis of human hematopoietic progenitor cells by counteracting proapoptotic activity of E2F-1. Kikuchi J, et al. Stem Cells, 2007 Oct. PMID 17600109.The histone H3K4 demethylase SMCX links REST target genes to X-linked mental retardation. Tahiliani M, et al. Nature, 2007 May 31. PMID 17468742.

Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (56.65 KDa) .

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.