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TBX2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant TBX2.
Catalog # AT4166a

Product Information

Application	WB, IF, E
Primary Accession	Q13207
Other Accession	NM_005994
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG3 Kappa
Clone Names	7G5
Calculated MW	75066

Additional Information

Gene ID	6909
Other Names	T-box transcription factor TBX2, T-box protein 2, TBX2
Target/Specificity	TBX2 (NP_005985, 603 a.a. ~ 702 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	WB~~1:500~1000 IF~~1:50~200 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	TBX2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

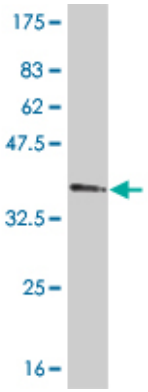
This gene is a member of a phylogenetically conserved family of genes that share a common DNA-binding domain, the T-box. T-box genes encode transcription factors involved in the regulation of developmental processes. This gene product is the human homolog of mouse Tbx2, and shares strong sequence similarity with Drosophila omb protein. Expression studies indicate that this gene may have a potential role in tumorigenesis as an immortalizing agent. Transcript heterogeneity due to alternative polyadenylation has been noted for this gene.

References

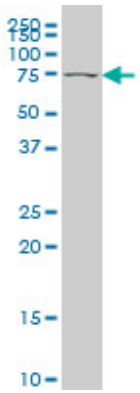
The role of height-associated loci identified in genome wide association studies in the determination of

pediatric stature. Zhao J, et al. BMC Med Genet, 2010 Jun 14. PMID 20546612.Expression of PSCA, PIWIL1, and TBX2 in endometrial adenocarcinoma. Liu WK, et al. Onkologie, 2010. PMID 20502058.The T-box transcription factor Tbx2: its role in development and possible implication in cancer. Abrahams A, et al. IUBMB Life, 2010 Feb. PMID 19960541.Identification of 15 loci influencing height in a Korean population. Kim JJ, et al. J Hum Genet, 2010 Jan. PMID 19893584.Phosphorylation of histone H3 by protein kinase C signaling plays a critical role in the regulation of the developmentally important TBX2 gene. Teng H, et al. J Biol Chem, 2009 Sep 25. PMID 19633291.

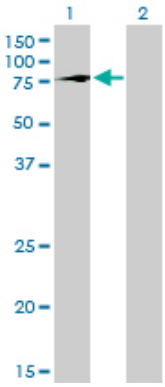
Images



Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .

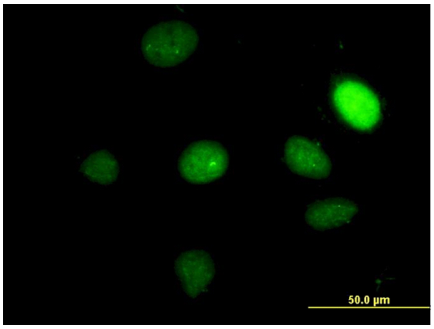


TBX2 monoclonal antibody (M01), clone 7G5 Western Blot analysis of TBX2 expression in Hela S3 NE ((Cat # AT4166a)

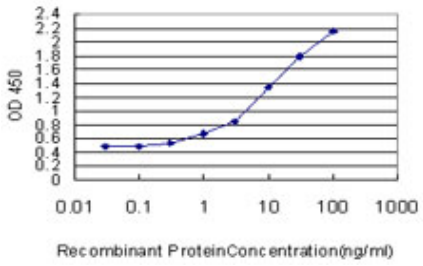


Western Blot analysis of TBX2 expression in transfected 293T cell line by TBX2 monoclonal antibody (M01), clone 7G5.

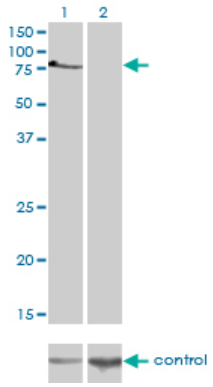
Lane 1: TBX2 transfected lysate(74.1 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to TBX2 on HeLa cell. [antibody concentration 30 ug/ml]



Detection limit for recombinant GST tagged TBX2 is approximately 0.3ng/ml as a capture antibody.



Western blot analysis of TBX2 over-expressed 293 cell line, cotransfected with TBX2 Validated Chimera RNAi ((Cat # AT4166a)

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