

PKNOX2 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant PKNOX2.

Catalog # AT3323a

Product Information

Application	WB, IF, E
Primary Accession	Q96KN3
Other Accession	NM_022062
Reactivity	Human, Mouse
Host	mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4B6
Calculated MW	52028

Additional Information

Gene ID	63876
Other Names	Homeobox protein PKNOX2, Homeobox protein PREP-2, PBX/knotted homeobox 2, PKNOX2, PREP2
Target/Specificity	PKNOX2 (NP_071345, 116 a.a. ~ 215 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	PKNOX2 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

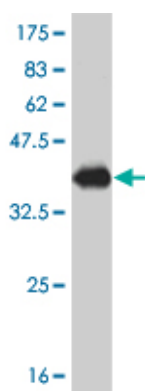
Homeodomain proteins are sequence-specific transcription factors that share a highly conserved DNA-binding domain and play fundamental roles in cell proliferation, differentiation, and death. PKNOX2 belongs to the TALE (3-amino acid loop extension) class of homeodomain proteins characterized by a 3-amino acid extension between alpha helices 1 and 2 within the homeodomain (Imoto et al., 2001 [PubMed 11549286]).

References

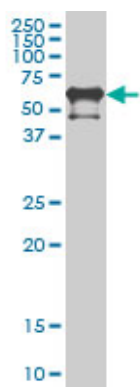
Variation at the NFATC2 Locus Increases the Risk of Thiazolinedione-Induced Edema in the Diabetes

REduction Assessment with ramipril and rosiglitazone Medication (DREAM) Study. Bailey SD, et al. Diabetes Care, 2010 Jul 13. PMID 20628086. Personalized smoking cessation: interactions between nicotine dose, dependence and quit-success genotype score. Rose JE, et al. Mol Med, 2010 Jul-Aug. PMID 20379614. Gene-centric association signals for lipids and apolipoproteins identified via the HumanCVD BeadChip. Talmud PJ, et al. Am J Hum Genet, 2009 Nov. PMID 19913121. PKNOX2 gene is significantly associated with substance dependence in European-origin women. Chen X, et al. Proc Natl Acad Sci U S A, 2009 Sep 10. PMID 19721000. Diversification of transcriptional modulation: large-scale identification and characterization of putative alternative promoters of human genes. Kimura K, et al. Genome Res, 2006 Jan. PMID 16344560.

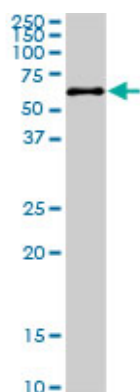
Images



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



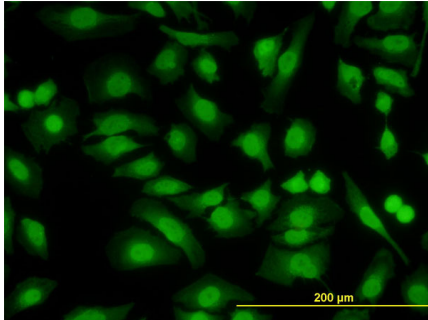
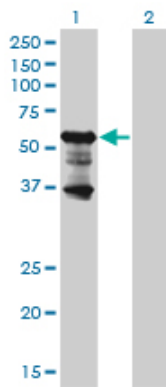
PKNOX2 monoclonal antibody (M01), clone 4B6 Western Blot analysis of PKNOX2 expression in HeLa S3 NE ((Cat # AT3323a)



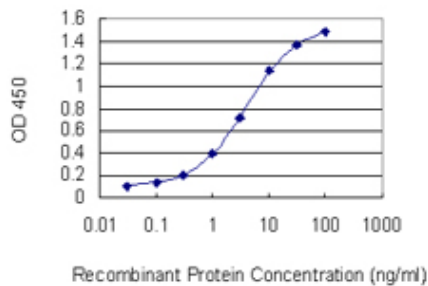
PKNOX2 monoclonal antibody (M01), clone 4B6. Western Blot analysis of PKNOX2 expression in NIH/3T3 ((Cat # AT3323a)

Western Blot analysis of PKNOX2 expression in transfected 293T cell line by PKNOX2 monoclonal antibody (M01), clone 4B6.

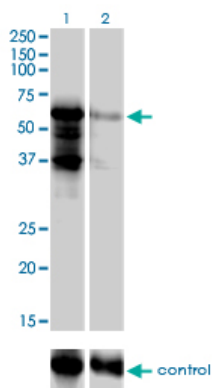
Lane 1: PKNOX2 transfected lysate(51.9 KDa).
Lane 2: Non-transfected lysate.



Immunofluorescence of monoclonal antibody to PKNOX2 on HeLa cell. [antibody concentration 10 ug/ml]



Detection limit for recombinant GST tagged PKNOX2 is 0.03 ng/ml as a capture antibody.



Western blot analysis of PKNOX2 over-expressed 293 cell line, cotransfected with PKNOX2 Validated Chimera RNAi (Cat # AT3323a)

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