

PKNOX2 Antibody (monoclonal) (M01)**Mouse monoclonal antibody raised against a partial recombinant PKNOX2.****Catalog # AT3323a****Specification**

PKNOX2 Antibody (monoclonal) (M01) - Product Information

Application	IF, WB, E
Primary Accession	O96KN3
Other Accession	NM_022062
Reactivity	Human, Mouse
Host	mouse
Clonality	Monoclonal
Isotype	IgG2b Kappa
Calculated MW	52028

PKNOX2 Antibody (monoclonal) (M01) - Additional Information**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

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.

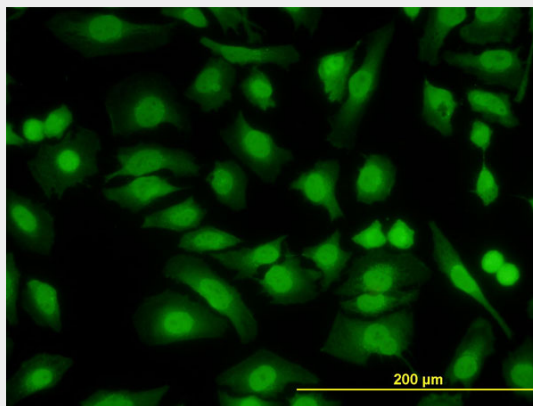
PKNOX2 Antibody (monoclonal) (M01) - Protocols

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

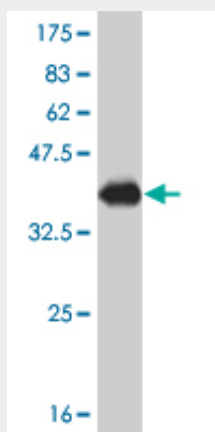
- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)

- [Flow Cytometry](#)
- [Cell Culture](#)

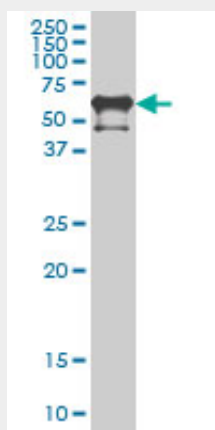
PKNOX2 Antibody (monoclonal) (M01) - Images



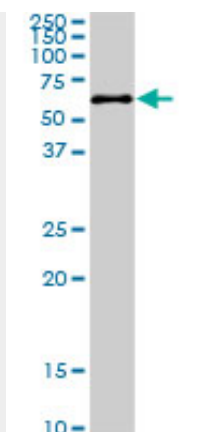
Immunofluorescence of monoclonal antibody to PKNOX2 on HeLa cell. [antibody concentration 10 ug/ml]



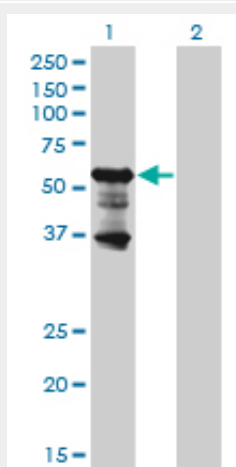
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



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



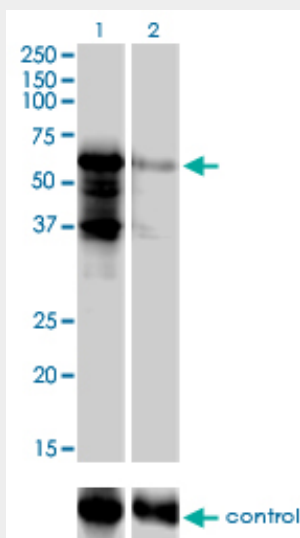
PKNOX2 monoclonal antibody (M01), clone 4B6. Western Blot analysis of PKNOX2 expression in NIH/3T3 (Cat # AT3323a)



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

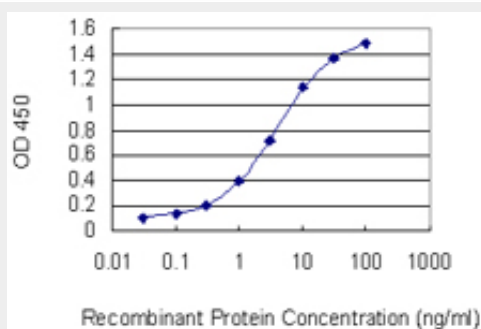
Lane 1: PKNOX2 transfected lysate(51.9 KDa).

Lane 2: Non-transfected lysate.



Western blot analysis of PKNOX2 over-expressed 293 cell line, cotransfected with PKNOX2

Validated Chimera RNAi ((Cat # AT3323a)



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

PKNOX2 Antibody (monoclonal) (M01) - 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]).

PKNOX2 Antibody (monoclonal) (M01) - 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.