

NFX1 Antibody (monoclonal) (M01)

Mouse monoclonal antibody raised against a partial recombinant NFX1.

Catalog # AT3039a

Product Information

Application	WB, IF, E
Primary Accession	Q12986
Other Accession	NM_002504
Reactivity	Human
Host	mouse
Clonality	monoclonal
Isotype	IgG2a Kappa
Clone Names	1D12
Calculated MW	124395

Additional Information

Gene ID	4799
Other Names	Transcriptional repressor NF-X1, 632-, Nuclear transcription factor, X box-binding protein 1, NFX1, NFX2
Target/Specificity	NFX1 (NP_002495, 981 a.a. ~ 1080 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	NFX1 Antibody (monoclonal) (M01) is for research use only and not for use in diagnostic or therapeutic procedures.

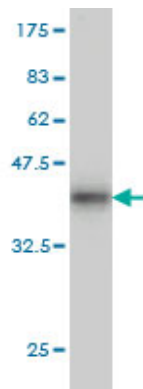
Background

MHC class II gene expression is controlled primarily at the transcriptional level by transcription factors that bind to the X and Y boxes, two highly conserved elements in the proximal promoter of MHC class II genes. The protein encoded by this gene is a transcriptional repressor capable of binding to the conserved X box motif of HLA-DRA and other MHC class II genes in vitro. The protein may play a role in regulating the duration of an inflammatory response by limiting the period in which class II MHC molecules are induced by IFN-gamma. Three alternative splice variants, each of which encodes a different isoform, have been identified.

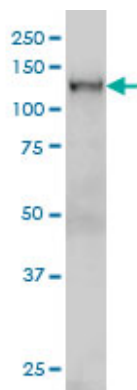
References

NFX1-123 increases hTERT expression and telomerase activity posttranscriptionally in human papillomavirus type 16 E6 keratinocytes. Katzenellenbogen RA, et al. J Virol, 2009 Jul. PMID 19369336. NFX1 interacts with mSin3A/histone deacetylase to repress hTERT transcription in keratinocytes. Xu M, et al. Mol Cell Biol, 2008 Aug. PMID 18505829. Distinct class of putative non-conserved promoters in humans: comparative studies of alternative promoters of human and mouse genes. Tsuritani K, et al. Genome Res, 2007 Jul. PMID 17567985. NFX1-123 and poly(A) binding proteins synergistically augment activation of telomerase in human papillomavirus type 16 E6-expressing cells. Katzenellenbogen RA, et al. J Virol, 2007 Apr. PMID 17267499. Nrf1 is targeted to the endoplasmic reticulum membrane by an N-terminal transmembrane domain. Inhibition of nuclear translocation and transacting function. Wang W, et al. J Biol Chem, 2006 Jul 14. PMID 16687406.

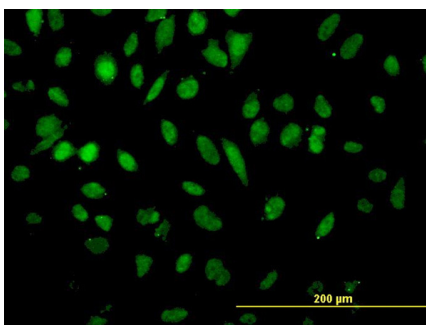
Images



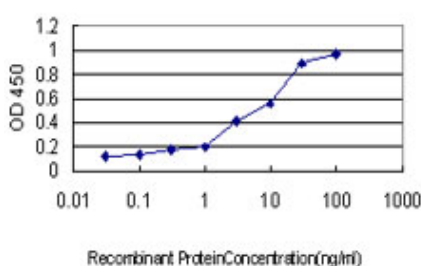
Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (36.74 kDa) .



NFX1 monoclonal antibody (M01), clone 1D12 Western Blot analysis of NFX1 expression in HeLa S3 NE (Cat # AT3039a)



Immunofluorescence of monoclonal antibody to NFX1 on HeLa cell. [antibody concentration 30 ug/ml]



Detection limit for recombinant GST tagged NFX1 is approximately 0.1 ng/ml as a capture antibody.

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