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# 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

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|---|---|
| **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. |

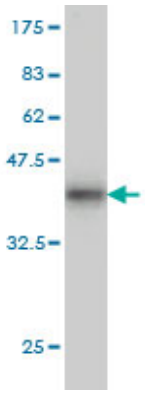
## Background

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.

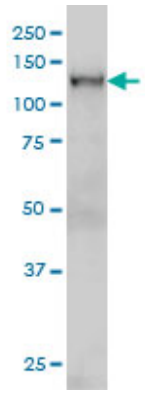
## References

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.

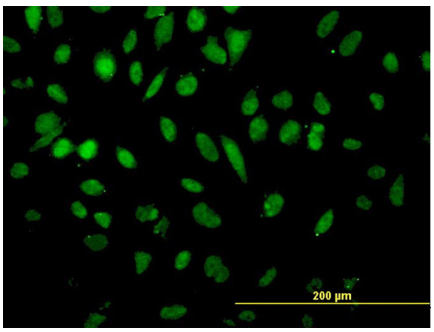
## Images



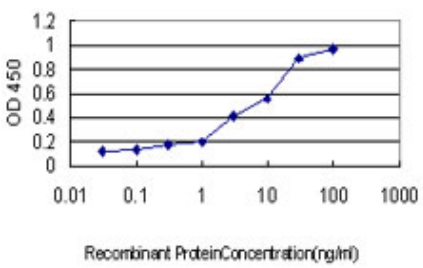

Antibody Reactive Against Recombinant Protein.Western Blot detection against Immunogen (36.74 KDa) .




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 0.1ng/ml as a capture antibody.

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