

**NFYB Antibody (monoclonal) (M03)****Mouse monoclonal antibody raised against a full length recombinant NFYB.****Catalog # AT3042a****Specification**

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**NFYB Antibody (monoclonal) (M03) - Product Information**

Application	WB, IF, E
Primary Accession	<a href="#">P25208</a>
Other Accession	<a href="#">BC005317</a>
Reactivity	Human
Host	mouse
Clonality	Monoclonal
Isotype	IgG2a Kappa
Calculated MW	22831

**NFYB Antibody (monoclonal) (M03) - Additional Information****Gene ID** 4801**Other Names**

Nuclear transcription factor Y subunit beta, CAAT box DNA-binding protein subunit B, Nuclear transcription factor Y subunit B, NF-YB, NFYB, HAP3

**Target/Specificity**

NFYB (AAH05317, 1 a.a. ~ 207 a.a) full-length 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**

NFYB Antibody (monoclonal) (M03) is for research use only and not for use in diagnostic or therapeutic procedures.

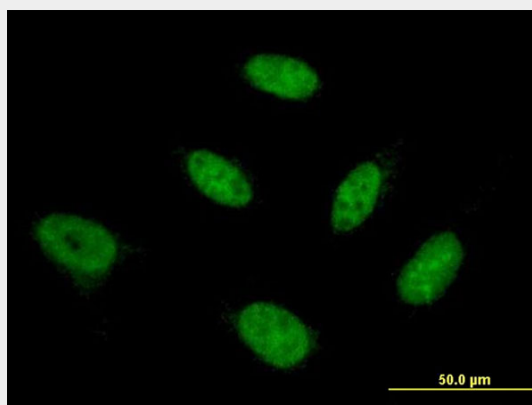
**NFYB Antibody (monoclonal) (M03) - Protocols**

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

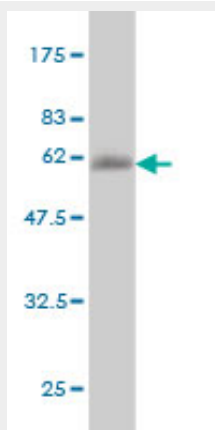
- [Western Blot](#)

- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

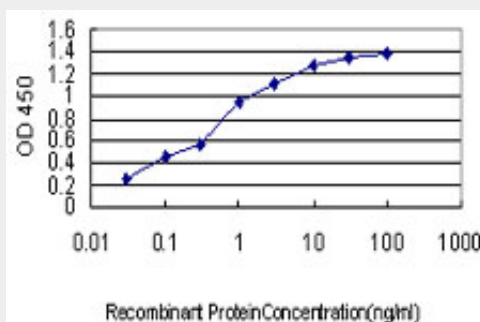
## NFYB Antibody (monoclonal) (M03) - Images



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



Antibody Reactive Against Recombinant Protein. Western Blot detection against Immunogen (48.51 KDa) .



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

**NFYB Antibody (monoclonal) (M03) - Background**

The protein encoded by this gene is one subunit of a trimeric complex, forming a highly conserved transcription factor that binds with high specificity to CCAAT motifs in the promoter regions in a variety of genes. This gene product, subunit B, forms a tight dimer with the C subunit, a prerequisite for subunit A association. The resulting trimer binds to DNA with high specificity and affinity. Subunits B and C each contain a histone-like motif. Observation of the histone nature of these subunits is supported by two types of evidence; protein sequence alignments and experiments with mutants.

**NFYB Antibody (monoclonal) (M03) - References**

HMGB1 and HMGB2 proteins up-regulate cellular expression of human topoisomerase IIalpha. Stros M, et al. Nucleic Acids Res, 2009 Apr. PMID 19223331. In cultured oligodendrocytes the A/B-type hnRNP CBF-A accompanies MBP mRNA bound to mRNA trafficking sequences. Raju CS, et al. Mol Biol Cell, 2008 Jul. PMID 18480411. CCAAT box is required for the induction of human thrombospondin-1 gene by trichostatin A. Kang JH, et al. J Cell Biochem, 2008 Jul 1. PMID 18275041. Gain of function of mutant p53: the mutant p53/NF-Y protein complex reveals an aberrant transcriptional mechanism of cell cycle regulation. Di Agostino S, et al. Cancer Cell, 2006 Sep. PMID 16959611. 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.