

Datasheet for 200-401-101**NF-Y Antibody****Overview**

Description:	Anti-NF-Y (B subunit) (RABBIT) Antibody - 200-401-101
Item No.:	200-401-101
Size:	100 µg
Applications:	ELISA, WB, EMSA, IP
Reactivity:	Human
Host Species:	Rabbit

Product Details

Background:	Nuclear transcription factor Y subunit beta is a component of the sequence-specific heterotrimeric transcription factor (NF-Y) which specifically recognizes a 5'-CCAAT-3' box motif found in the promoters of its target genes. NF-Y can function as both an activator and a repressor, depending on its interacting cofactors.
Synonyms:	rabbit anti-NF-Y Antibody, Nuclear transcription factor Y subunit B
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	NFYB
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	NF-Y (B subunit) peptide corresponding to a region near the N-terminus of the human protein conjugated to Keyhole Limpet Hemocyanin (KLH).
Purity/Specificity:	This product was prepared from monospecific antiserum by a multi-step procedure which includes delipidation, salt fractionation and ion exchange chromatography. A single precipitin arc was observed against anti-Rabbit Serum when assayed by immunoelectrophoresis.
Relevant Links:	NCBI - P25208.2

- [UniProtKB - P25208](#)
- [GeneID - 4801](#)

Application Details

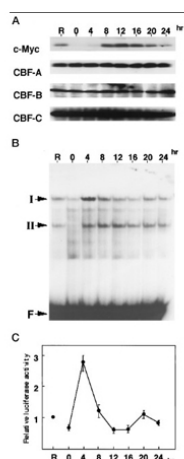
Tested Applications:	ELISA, WB
Suggested Applications:	EMSA, IP (Based on references)
Application Note:	This product was assayed by immunoblot and found to be reactive against the 25 kDa B subunit of NF-Y at a dilution of 1:500 followed by reaction with Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) code #611-1302. Anti-NF-Y (B subunit specific) is suitable for the detection by immunoblot of human and mouse NF-Y (B subunit specific). Minimal reaction was observed by immunoblot against the 35 kDa A subunit of NF-Y. This product was also tested in a gel supershift assay and found to be reactive against human and mouse NF-Y using 2.0 to 4.0 μ l per assay. This product was assayed against NF-Y B subunit peptide in an antibody capture ELISA using (#611-1302) Peroxidase conjugated Affinity Purified anti-Rabbit IgG [H&L] (Goat) and ABTS substrate (#ABTS-100). A dilution of 1:4000 is suggested from this experiment. Minimal reactivity was observed by ELISA against the A subunit of NF-Y.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:5,000 - 1:25,000
EMSA:	2.0 to 4.0 μ l
WB:	1:500 - 1:3,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Dry Ice
----------------------------	---------



Western Blot

Changes in the CBF-NF-Y complex formation and the transcriptional activity of the wtB sequence during the cell cycle. Mouse Balb 3T3 cells were synchronized in the G0 phase of the cell cycle by serum starvation for 48 h. The nuclear extracts were prepared from the cells harvested at various times (0–24 h) after serum addition and examined for the expression of c-Myc and the CBF subunits (A) and the complex formation on the wtB sequence (B). R indicates the samples from the cells at random culture. A, the extracts were Western blotted using the anti-c-Myc antibody (C-33) or the antibody against the subunits of CBF/NF-Y (pRαYB, pRαYA/C, or α-CBF-C). B, the extracts were subjected to bandshift assays using a labeled wtB sequence as a probe. The positions of the specific complex I, II, and free probes are indicated. C, 2 μg of the reporter plasmid pwtB-TATA-Luc was transfected to Balb 3T3 cells, and the cells were synchronized as described previously (12). The luciferase activity was assayed at various times (0–24 h) after serum addition. Relative luciferase activities to that of the cells at random culture (R) are shown.

Figure 8. PMID: 10446203

References

- Grimm M et al. Inhibition of Major Histocompatibility Complex Class II Gene Transcription by Nitric Oxide and Antioxidants. *J Biol Chem.* (2002)
- Taira T et al. Cell cycle-dependent switch of up-and down-regulation of human hsp70 gene expression by interaction between c-Myc and CBF/NF-Y. *J Biol Chem.* (1999)

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.