

Datasheet for 100-401-101**NF-Y Antibody****Overview**

Description:	Anti-NF-Y (B subunit) (RABBIT) Antibody - 100-401-101
Item No.:	100-401-101
Size:	100 µL
Applications:	IHC, 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 beta, Nuclear transcription factor Y subunit B, CAAT box DNA-binding protein subunit B, NF-YB, HAP3
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	Antiserum

Target Details

Gene Name:	NFYB
Reactivity:	Human
Immunogen Type:	Conjugated Peptide
Immunogen:	NF-Y (B subunit specific) 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 delipidation and defibrination.
Relevant Links:	NCBI - P25208.2

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

Application Details

Tested Applications:	IHC, WB
Suggested Applications:	EMSA, IP (Based on references)
Application Note:	This product was tested by immunoblot and found to be reactive against NF-Y (B subunit specific) at a dilution of 1:2,000 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. Minimal reactivity was observed against the A subunit of NF-Y. This product was also tested in a gel supershift assay and found to be reactive against NF-Y using 0.5 to 1.0 µl per assay. This product is tested for immunohistochemistry in human thymus tissue at 1:500.
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:	0.5 to 1.0 µL
IHC:	1:500
WB:	1:500 - 1:3,000

Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	90 mg/mL by Refractometry
Buffer:	None
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

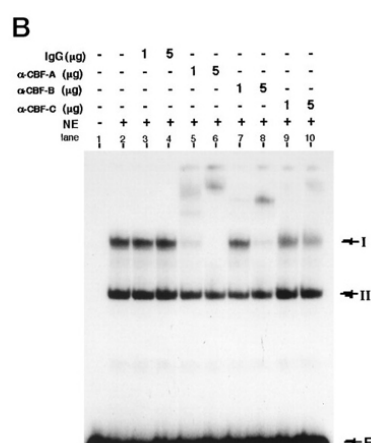
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.

Expiration: Expiration date is one (1) year from date of receipt.

Images



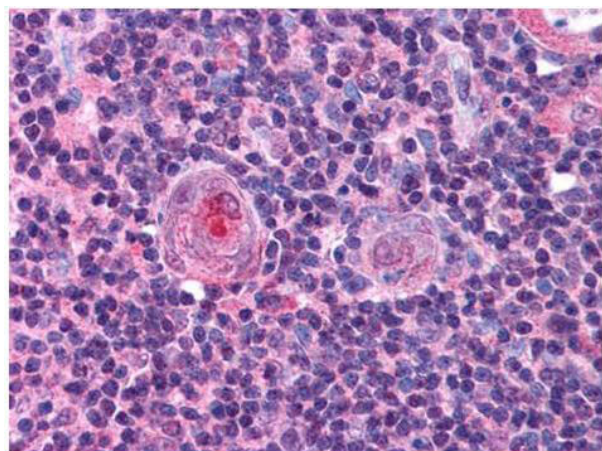
Western Blot

Nucleoprotein complexes I and II formation on the wtB oligonucleotide sequence.

Bandshift assays were carried out using the Balb 3T3 nuclear extract (NE) and the labeled wtB sequence as a probe. Prior to the addition of the probe, the reaction mixture was incubated for 60 min at 0 °C in the presence or absence of the indicated amounts of antibodies against three CBF/NF-Y subunits pRαYB [p/n 100-401-101], pRαYA/C, or α-CBF-C], or nonspecific IgG. The positions of two specific DNA-protein complexes are indicated by arrows (I and II). F shows the position of free probes.

Figure 4

PMID: 10446203



Immunohistochemistry

Immunohistochemistry. Rockland's Anti-NF-Y (B Subunit) antibody was diluted 1:500 to detect NF-YB in human thymus tissue. Tissue was formalin fixed and paraffin embedded. No pre-treatment of sample was required. The image shows the localization of antibody as the precipitated red signal, with a hematoxylin purple nuclear counter stain.

References

- 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

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