

## Recombinant Human NFYB

**Cat. No.** NFYB-29919TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant full length Human NFYB with a N terminal proprietary tag; Predicted MWt 48.51 kDa including the tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>ProteinLength</b>    | 207 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | 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. |
| <b>Molecular Weight</b> | 48.510kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Storage buffer</b>   | pH: 8.00Constituents:0.79% Tris HCl, 0.3% Glutathione                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                                                                                                                                      |
| <b>Sequences of amino acids</b> | MTMDGDSSTTDASQLGISADYIGGSHYVIQPHDDTEDSMN DHEDTNGSKESFREQ<br>DIYLPANVARIMKNAIPQTGKIAK DAKECVQECVSEFISFITSEASERCHQEKRTIN<br>GEDILF AMSTLGFDSYVEPLKLYLQKFREAMKGEKGIGGAVTATDG LSEELTEEAFT<br>NQLPAGLITTDGQQQNVMVYTTSYQQISG VQQIQFS |
| <b>Sequence Similarities</b>    | Belongs to the NFYB/HAP3 subunit family.                                                                                                                                                                                       |

## GENE INFORMATION

|                            |                                                                                                              |
|----------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | NFYB nuclear transcription factor Y, beta [ Homo sapiens ]                                                   |
| <b>Official Symbol</b>     | NFYB                                                                                                         |
| <b>Synonyms</b>            | NFYB; nuclear transcription factor Y, beta; nuclear transcription factor Y subunit beta; CBF A; HAP3; NF YB; |
| <b>Gene ID</b>             | 4801                                                                                                         |
| <b>mRNA Refseq</b>         | NM_006166                                                                                                    |
| <b>Protein Refseq</b>      | NP_006157                                                                                                    |
| <b>MIM</b>                 | 189904                                                                                                       |
| <b>Uniprot ID</b>          | P25208                                                                                                       |
| <b>Chromosome Location</b> | 12q22-q23                                                                                                    |

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|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Pathway</b>  | Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and presentation, conserved biosystem; Diabetes pathways, organism-specific biosystem; Direct p53 effectors, organism-specific biosystem; |
| <b>Function</b> | DNA binding; protein binding; repressing transcription factor binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;                                                                                                                                  |

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