

## Recombinant Human NFYA

**Cat. No.** NFYA-30385TH    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant fragment of Human NFYA Isoform short with N-terminal proprietary tag.<br>Mol Wt 36.63 kDa inclusive of tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>ProteinLength</b>    | 100 amino acids                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | <p>The protein encoded by this gene is one subunit of a trimeric complex, forming a highly conserved transcription factor that binds to CCAAT motifs in the promoter regions in a variety of genes. Subunit A associates with a tight dimer composed of the B and C subunits, resulting in a trimer that binds to DNA with high specificity and affinity. The sequence specific interactions of the complex are made by the A subunit, suggesting a role as the regulatory subunit. In addition, there is evidence of post-transcriptional regulation in this gene product, either by protein degradation or control of translation. Further regulation is represented by alternative splicing in the glutamine-rich activation domain, with clear tissue-specific preferences for the two isoforms.</p> |
| <b>Molecular Weight</b> | 36.630kDa inclusive of tags                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Purity</b>           | Proprietary Purification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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|                                 |                                                                                                          |
|---------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Storage buffer</b>           | pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl                                                    |
| <b>Storage</b>                  | Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.                |
| <b>Sequences of amino acids</b> | AIQRIPLPGAEMLEEEPLYVNAKQYNRILKRRQARAKLEAGKIPKERRKYLHESRHR<br>HAMARKRGEGGRFFSPKEKDSPHMQDPNQADEEAMTQIIRVS* |

## GENE INFORMATION

|                            |                                                                                                                                                               |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | NFYA nuclear transcription factor Y, alpha [ Homo sapiens ]                                                                                                   |
| <b>Official Symbol</b>     | NFYA                                                                                                                                                          |
| <b>Synonyms</b>            | NFYA; nuclear transcription factor Y, alpha; nuclear transcription factor Y subunit alpha; CBF B; HAP2; NF YA;                                                |
| <b>Gene ID</b>             | 4800                                                                                                                                                          |
| <b>mRNA Refseq</b>         | NM_002505                                                                                                                                                     |
| <b>Protein Refseq</b>      | NP_002496                                                                                                                                                     |
| <b>MIM</b>                 | 189903                                                                                                                                                        |
| <b>Uniprot ID</b>          | P23511                                                                                                                                                        |
| <b>Chromosome Location</b> | 6p21.3                                                                                                                                                        |
| <b>Pathway</b>             | Activation of Chaperones by ATF6-alpha, organism-specific biosystem; Antigen processing and presentation, organism-specific biosystem; Antigen processing and |

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presentation, conserved biosystem; Diabetes pathways, organism-specific biosystem;  
Direct p53 effectors, organism-specific biosystem;

**Function**

DNA binding; protein binding; sequence-specific DNA binding transcription factor activity;

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