Recombinant Human NFYA Protein, GST-tagged

Cat. No. NFYA-201H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NFYA, transcript variant 2, fused with GST tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	Lyophilized from a 0.2 μM filtered solution of 20mM PB, 150mM NaCl, pH 7.2
Molecular Mass	60.58kD
AA Sequence	MSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELGLEFPNLPY YIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSRIAYSKDFE TLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPMCLDA

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	FPKLVCFKKRIEAIPQIDKYLKSSKYIAWPLQGWQATFGGGDHPPKSDLVPRGSPEF MEQYTANSNSSTEQIVVQAGQIQQQV
Endotoxin	Endotoxin level is <0.1 ng/μg of protein (<1EU/μg).
Purity	>95% as determined by SDS-PAGE and Coomassie blue staining
Concentration	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/ml. Dissolve the lyophilized protein in 1X PBS. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

GENE INFORMATION

Gene Name	NFYA nuclear transcription factor Y, alpha [Homo sapiens]
Official Symbol	NFYA
Synonyms	NFYA; nuclear transcription factor Y, alpha; nuclear transcription factor Y subunit alpha; CBF B; HAP2; NF YA; HAP2 CCAAT-binding protein; Transcription factor NF-Y, A subunit; CAAT box DNA-binding protein subunit A; CAAT-box DNA binding protein subunit A; nuclear transcription factor Y subunit A; CCAAT-binding transcription factor subunit B; CBF-A; CBF-B; NF-YA; FLJ11236;
Gene ID	4800
mRNA Refseq	M_021705
Protein Refseq	NP_068351
MIM	189903

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UniProt ID	P23511

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