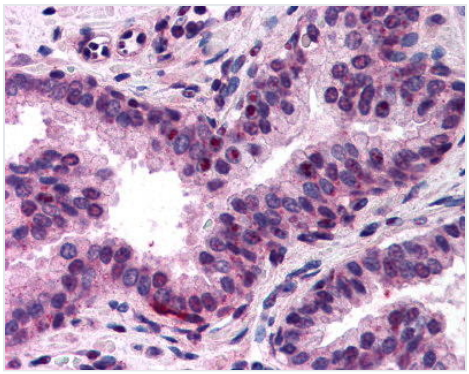
NFYA Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	NFYA, Polyclonal Antibody
Full Product Name	NFYA, NT (Nuclear Transcription Factor Y Subunit alpha, CAAT Box DNA-binding Protein Subunit A, Nuclear Transcription Factor Y Subunit A, NF-YA)
Product Gene Name	anti-NFYA antibody
Product Synonym Names	Anti -NFYA, NT (Nuclear Transcription Factor Y Subunit alpha, CAAT Box DNA-binding Protein Subunit A, Nuclear Transcription Factor Y Subunit A, NF-YA)
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid, 0.01% sodium azide.
Purity/Purification	Serum Serum
Specificity	Recognizes human NFYA.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	36,877 Da
Chromosome Location	Chromosome: 6; NC_000006.11 (41040707..41070146). Location: 6p21.3
OMIM	189903
3D Structure	ModBase 3D Structure for P23511
Immunogen	Synthetic peptide corresponding to human NFYA at N-terminal (KLH).
Product Categories/Family for anti-NFYA antibody	Antibodies; Abs to Transcription Factors
Applications Tested/Suitable for anti-NFYA antibody	ELISA (EL/EIA), Western Blot (WB), Immunoprecipitation (IP), Immunohistochemistry (IHC), Immunofluorescence (IF)
Application Notes for anti-NFYA antibody	Suitable for use in Immunofluorescence, ELISA, Western Blot, Immunoprecipitation, Gel shift and Immunohistochemistry. Dilution: Western Blot: 1:1000 Immunohistochemistry (Formalin fixed paraffin embedded): 1:400
Related Product Information for anti-NFYA antibody	NFYA 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.
Other Notes	Small volumes of anti-NFYA antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for NFYA purchase	MBS642478 is an antibody targeting NFYA. Also known as NFYA, NT (Nuclear Transcription Factor Y Subunit alpha, CAAT Box DNA-binding Protein Subunit A, Nuclear Transcription Factor Y Subunit A, NF-YA). Reactive in Human. Host: Rabbit.



Immunohistochemistry (IHC) of anti-NFYA antibody
Human Prostate (formalin-fixed, paraffin-embedded) stained with NFYA antibody at 1:400 followed by biotinylated goat anti-rabbit IgG secondary antibody alkaline phosphatase-streptavidin and chromogen.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for NFYA. It may not necessarily be applicable to this product.

NCBI GI #	11496974
NCBI GeneID	4800
NCBI Accession #	NP_068351.1
UniProt Primary Accession #	P23511
UniProt Secondary Accession #	Q8IXU0
UniProt Related Accession #	P23511
GenBank Nucleotide #	NM_021705.3
NCBI Official Full Name	nuclear transcription factor Y subunit alpha isoform 2
NCBI Official Synonym Full Names	nuclear transcription factor Y, alpha
NCBI Official Symbol	NFYA
NCBI Official Synonym Symbols	HAP2; CBF-A; CBF-B; NF-YA
UniProt Protein Name	Nuclear transcription factor Y subunit alpha
UniProt Synonym Protein Names	CAAT box DNA-binding protein subunit A; Nuclear transcription factor Y subunit A
Protein Family	Nuclear transcription factor
UniProt Gene Name	NFYA
UniProt Synonym Gene Names	NF-YA
UniProt Entry Name	NFYA_HUMAN
NCBI Protein Information	nuclear transcription factor Y subunit alpha; 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
NCBI Summary for NFYA	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. [provided by RefSeq, Jul 2008]

UniProt Comments for NFYA	NFYA: stimulates the transcription of various genes by recognizing and binding to a CCAAT motif in promoters, for example in type 1 collagen, albumin and beta-actin genes. Heterotrimeric transcription factor composed of three components, NF-YA, NF-YB and NF-YC. Involved in cisplatin resistance. NF-YB and NF-YC must interact and dimerize for NF-YA association and DNA binding. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Transcription factor; DNA-binding Chromosomal Location of Human Ortholog: 6p21.3 Cellular Component: nucleoplasm; CCAAT-binding factor complex; nucleus Molecular Function: protein binding; DNA binding; transcription factor activity Biological Process: transcription from RNA polymerase II promoter; regulation of transcription, DNA-dependent; positive regulation of transcription, DNA-dependent; rhythmic process; positive regulation of transcription from RNA polymerase II promoter; cellular lipid metabolic process
Research Articles on NFYA	**1.** NF-Y recruits the developmentally regulated, erythroid transcription activator GATA-2 and general repressor BCL11A to modulate transcription of the gamma-globin gene.
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