

For Research Use Only

NFYA Polyclonal antibody

Catalog Number: 12981-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number:

12981-1-AP

Size:

150ul, Concentration: 800 ug/ml by Nanodrop and 493 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG3604

GenBank Accession Number:

BC039244

GeneID (NCBI):

4800

UNIPROT ID:

P23511

Full Name:

nuclear transcription factor Y, alpha

Calculated MW:

318aa, 34 kDa; 347aa, 39 kDa

Observed MW:

40 kDa, 46 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:500-1:1000

IHC 1:250-1:1000

IF/ICC 1:50-1:500

Applications

Tested Applications:

WB, IHC, IF/ICC, ELISA

Cited Applications:

WB, IHC

Species Specificity:

human, mouse

Cited Species:

human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : HEK-293 cells, HeLa cells, HT-1080 cells, Jurkat cells, K-562 cells

IHC : human colon cancer tissue, human prostate cancer tissue

IF/ICC : HepG2 cells,

Background Information

NFYA, also named as Nuclear transcription factor Y subunit alpha, is a 347 amino acid protein, which contains 1 NFYA/HAP2-type DNA-binding domain and belongs to the NFYA/HAP2 subunit family. NFYA exists the two 41- to 45-kDa isoforms of NF-YA (11287613). NFYA 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. NF-YA positively regulates the transcription of the core clock component ARNTL/BMAL1

Notable Publications

Author	Pubmed ID	Journal	Application
Joshua E Burda	35614216	Nature	IHC
Bin Cao	30106137	Int J Oncol	WB
Matthew S Fuller	28446681	J Virol	WB

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

*** 20ul sizes contain 0.1% BSA

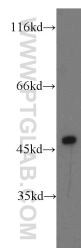
For technical support and original validation data for this product please contact:

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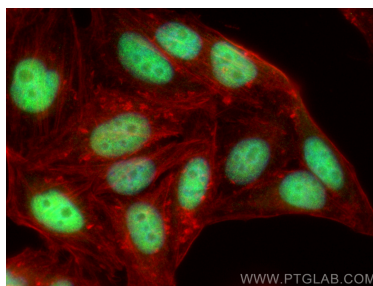
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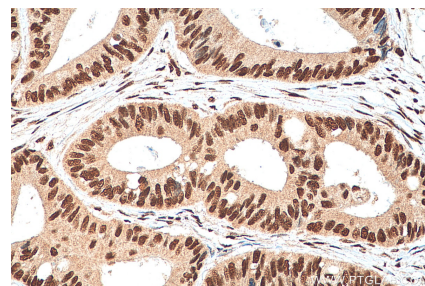
Selected Validation Data



HEK-293 cells were subjected to SDS PAGE followed by western blot with 12981-1-AP (NFYA antibody) at dilution of 1:200 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NFYA antibody (12981-1-AP) at dilution of 1:200 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2), CL594-Phalloidin (red).



Immunohistochemical analysis of paraffin-embedded human colon cancer tissue slide using 12981-1-AP (NFYA antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).