

For Research Use Only

NFYA Polyclonal antibody

Catalog Number: 12981-1-AP

Featured Product

4 Publications



Basic Information

Catalog Number: 12981-1-AP	GenBank Accession Number: BC039244	Purification Method: Antigen affinity purification
Size: 150ul , Concentration: 800 µg/ml by Nanodrop and 493 µg/ml by Bradford method using BSA as the standard;	GeneID (NCBI): 4800	Recommended Dilutions: WB 1:500-1:1000 IHC 1:250-1:1000 IF 1:10-1:100
Source: Rabbit	Full Name: nuclear transcription factor Y, alpha	
Isotype: IgG	Calculated MW: 318aa,34 kDa; 347aa,39 kDa	
Immunogen Catalog Number: AG3604	Observed MW: 40 kDa, 46 kDa	

Applications

Tested Applications:

IF, IHC, WB, ELISA

Cited Applications:

IHC, WB

Species Specificity:

human, mouse

Cited Species:

human, rat, mouse

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 : HepG2 cells,

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

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

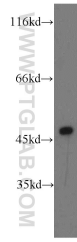
For technical support and original validation data for this product please contact:

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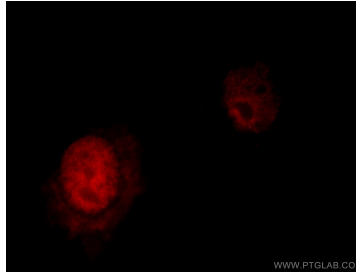
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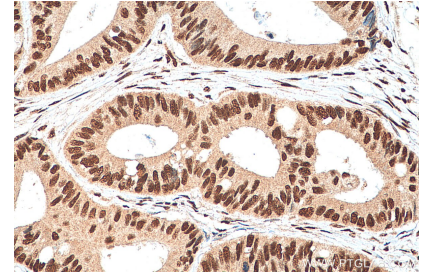
Selected Validation Data



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 HepG2 cells, using NFYA antibody 12981-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (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).