

For Research Use Only

NFIL3 Polyclonal antibody

Catalog Number: 11773-1-AP

Featured Product

21 Publications



Basic Information

Catalog Number:

11773-1-AP

Size:

150ul, Concentration: 900 ug/ml by Nanodrop and 413 ug/ml by Bradford method using BSA as the standard;

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG2380

GenBank Accession Number:

BC008197

GeneID (NCBI):

4783

UNIPROT ID:

Q16649

Full Name:

nuclear factor, interleukin 3 regulated

Calculated MW:

462 aa, 51 kDa

Observed MW:

55-60 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB 1:1000-1:6000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:500-1:2000

IF/ICC 1:400-1:1600

Applications

Tested Applications:

WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:

WB, IHC, IF, IP, ChIP

Species Specificity:

human, mouse, rat

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: HepG2 cells, K562 cells

IP: HeLa cells,

IHC: mouse stomach tissue, human skin cancer tissue, rat stomach tissue

IF/ICC: HepG2 cells,

Background Information

NFIL3, also named as E4BP4 and IL3BP1, belongs to the bZIP family and NFIL3 subfamily. It represses transcription from promoters with activating transcription factor (ATF) sites. NFIL3 activates transcription from the interleukin-3 promoter in T-cells. It competes for the same consensus-binding site with PAR DNA-binding factors (DBP, HLF and TEF). It is a component of the circadian clock that acts as a negative regulator for the circadian expression of PER2 oscillation in the cell-autonomous core clock. NFIL3 protects pro-B cells from programmed cell death. It is a key regulator of TH2 responses (PMID:21499227). The calculated molecular weight of NFIL3 is 51 kDa, but the modified NFIL3 is about 55-60 kDa.

Notable Publications

Author	Pubmed ID	Journal	Application
Honghu Tang	34660620	Front Med (Lausanne)	WB, ChIP
Min Chen	31515204	Drug Metab Dispos	WB, ChIP
Min Chen	36216079	Biochem Pharmacol	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

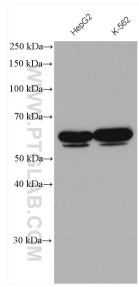
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

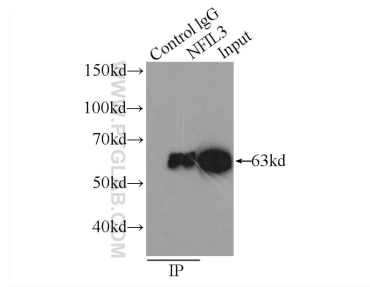
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

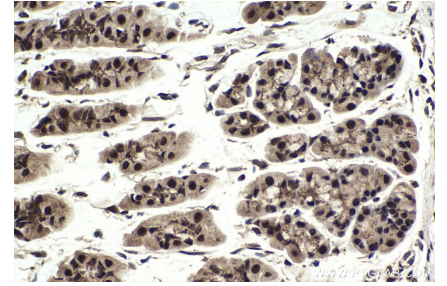
Selected Validation Data



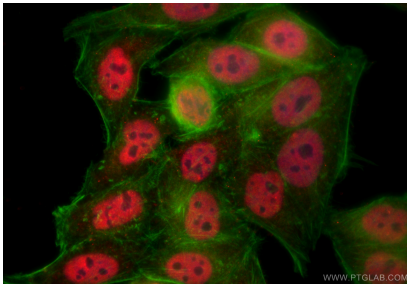
Various lysates were subjected to SDS PAGE followed by western blot with 11773-1-AP (NFIL3 antibody) at dilution of 1:3000 incubated at room temperature for 1.5 hours.



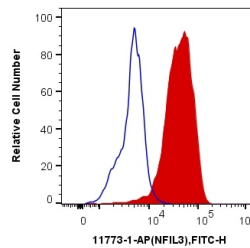
IP result of anti-NFIL3 (IP:11773-1-AP, 4ug; Detection:11773-1-AP 1:1000) with HeLa cells lysate 1600ug.



Immunohistochemical analysis of paraffin-embedded mouse stomach tissue slide using 11773-1-AP (NFIL3 antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using NFIL3 antibody (11773-1-AP) at dilution of 1:800 and Coralite®594-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-4), CL488-phalloidin (green).



1X10⁶ NK92 were intracellularly stained with 0.4 ug Anti-Human NFIL3 (11773-1-AP) and Coralite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug x. Cells were fixed and permeabilized with Transcription Factor Staining Buffer Kit (PF00011).