For Research Use Only

NF90/ILF3 Polyclonal antibody

Catalog Number:19887-1-AP Featured Product 27 Publications

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Basic Information

Catalog Number:
19887-1-AP

Size:
700 ug/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG13707

GenBank Accession Number:
BC064836

GeneID (NCBI):
3609

UNIPROT ID:
Q12906

Full Name:
interleukin enhancer binding factor 3, 90kDa

Calculated MW:
894 aa, 95 kDa

Observed MW:
90 kDa, 110 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:2000-1:16000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:10-1:100

Applications

Tested Applications:
WB, IHC, IF/ICC, IP, ELISA

Cited Applications:
WB, IHC, IF, IP, CoIP, RIP

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 : HeLa cells, Jurkat cells, mouse spleen tissue, K-562 cells, Raji cells

IP : HeLa cells,

IHC : human cervical cancer tissue, human placenta tissue

IF/ICC : Hela cells,

Background Information

Nuclear factor of activated T cells (NFAT)is a transcription factor required for T-cell expression of interleukin-2 (IL2). NFAT binds to a sequence known as the antigen receptor response element-2 (ARRE2) in the IL2 enhancer. NFAT contains two subunits, one is ILF3. ILF3 can facilitate double-standed RNA-regulated gene expression at the level of post-transcription. It binds to and inhibits coding sequences of acid beta-glucosidase and other mRNAs and functions at the initiation phase of GCase mRNA translation, probably by inhibiting its binding to polysomes. ILF3 exists main two isoforms NFAR-1 (90 kDa) and -2 (110 kDa). NFAR-1 and -2 each contain two DRBDs in their C-terminus regions and exhibit 98% homology to one another at the amino acid level. NFAR-2 contains an extra 192 amino acids at the C-terminal region that are encoded by an extra three exons present in its corresponding transcript.

Notable Publications

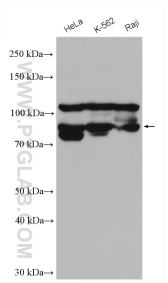
Author	Pubmed ID	Journal	Application
Ling-Fei Zhang	26346275	EMBO J	WB
Neeraja Purandare	36339251	iScience	WB
Subhayan Sur	33043604	EMBO Rep	WB,RIP

Storage

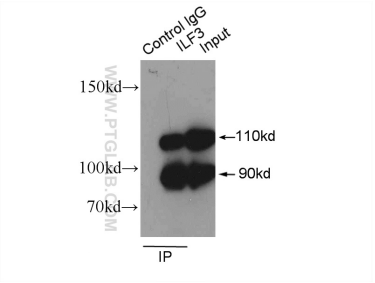
Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

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

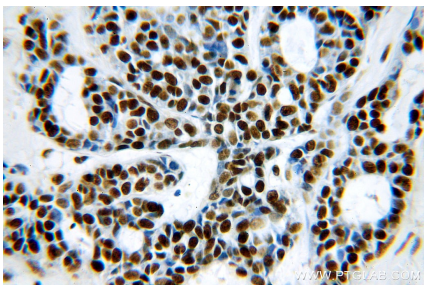
Selected Validation Data



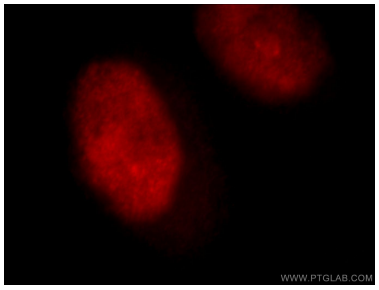
Various lysates were subjected to SDS PAGE followed by western blot with 19887-1-AP (ILF3 antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



IP result of anti-NF90/ILF3 (IP:19887-1-AP, 3ug; Detection:19887-1-AP 1:1000) with HeLa cells lysate 1600ug.



Immunohistochemical analysis of paraffin-embedded human cervical cancer using 19887-1-AP (ILF3 antibody) at dilution of 1:100 (under 40x lens).



Immunofluorescent analysis of Hela cells, using ILF3 antibody 19887-1-AP at 1:25 dilution and Rhodamine-labeled goat anti-rabbit IgG (red).