

Recombinant Human ILF3, His-tagged

Cat. No. ILF3-29491TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 29-452 of Human ILF3 with N terminal His tag; 48.8 kDa ;
Species	Human
Source	E.coli
ProteinLength	29-452 a.a.
Description	This gene encodes a double-stranded RNA (dsRNA) binding protein that complexes with other proteins, dsRNAs, small noncoding RNAs, and mRNAs to regulate gene expression and stabilize mRNAs. This protein was first discovered to be a subunit of the nuclear factor of activated T-cells (NFAT); a transcription factor required for T-cell expression of interleukin 2. NFAT is a heterodimer of 45 kDa and 90 kDa proteins, the larger of which is the product of this gene. These proteins have been shown to affect the redistribution of nuclear mRNA to the cytoplasm. Knockdown of NF45 or NF90 protein retards cell growth; possibly by inhibition of mRNA stabilization. In contrast, an isoform (NF110) of this gene that is predominantly restricted to the nucleus has only minor effects on cell growth when its levels are reduced. Alternative splicing results in multiple transcript variants encoding distinct isoforms.
Conjugation	HIS
Tissue specificity	Ubiquitous.

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Form	Lyophilised:Reconstitute with 49µl distilled water.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5
Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	EAVQNMVSHTERALKAVSDWIDEQEKGSSSEQAESDNMDVP PEDDSKEGAGEQKT EHMTRTLRGVMRVGLVAKGLLLKG DLDLELVLLCKEKPPTALLDKVADNLAIQLAAV TEDKY EILQSVDDAAIVIKNTKEPPLSLTIHLTSPVVREEMEK VLAGETLSVNDPPDV LDRQKCLAAALASLRHAKWFQARANG LKSCVIVIRVLRDLCTRVPTWGPLRGWPLEL LCEKSIG TANRPMGAGEALRRVLECLASGIVMPDGSGIYDPCEKE ATDAIGHLDRQ QREDITQSAQHALRLAAFGQLHKVLGM DPLPSKMPKKPKNENPVDYTVQIPPSTTY AITPMKRPM EEDGEKSPSKKKKKIQKKEEKAEPQAMNALMRLNQLKP GLQYKL VSQTGPVHAPIFTMSVEVDGNSFEASGPSKKT
Sequence Similarities	Contains 2 DRBM (double-stranded RNA-binding) domains.Contains 1 DZF domain.

GENE INFORMATION

Gene Name	ILF3 interleukin enhancer binding factor 3, 90kDa [Homo sapiens]
Official Symbol	ILF3
Synonyms	ILF3; interleukin enhancer binding factor 3, 90kDa; interleukin enhancer binding factor 3, 90kD; interleukin enhancer-binding factor 3; DRBP76; M phase phosphoprotein 4; MPHOSPH4; MPP4; NF90; NFAR 1;
Gene ID	3609

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mRNA Refseq	NM_001137673
Protein Refseq	NP_001131145
MIM	603182
Uniprot ID	Q12906
Chromosome Location	19p13.2
Function	DNA binding; RNA binding; double-stranded RNA binding; protein binding;

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