abcam

Product datasheet

Anti-ILF3 antibody ab89100

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Overview

Product name	Anti-ILF3 antibody
Description	Mouse polyclonal to ILF3
Host species	Mouse
Tested applications	**Suitable for:** ICC, WB, IHC-P
Species reactivity	**Reacts with:** Human
Immunogen	Recombinant full length protein within Human ILF3 aa 1-750. The exact immunogen sequence used to generate this antibody is proprietary information. If additional detail on the immunogen is needed to determine the suitability of the antibody for your needs, please **contact** our Scientific Support team to discuss your requirements. Database link: **NP_004507**
Positive control	WB: Human pancreas or HeLa nuclear lysate. IHC-P: Human small intestine tissue. ICC: HeLa cells.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Constituent: 100% PBS
Purity	Protein A purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab89100 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC		Use a concentration of 10 µg/ml.
WB	★★★★☆ **(1)**	Use a concentration of 1 µg/ml. Predicted molecular weight: 95 kDa.
IHC-P		Use a concentration of 3 µg/ml. Perform heat mediated antigen retrieval via the microwave method before commencing with IHC staining protocol.

Target

Function May facilitate double-stranded RNA-regulated gene expression at the level of post-transcription. Can act as a translation inhibitory protein which binds to coding sequences of acid beta-glucosidase (GCase) and other mRNAs and functions at the initiation phase of GCase mRNA translation, probably by inhibiting its binding to polysomes. Can regulate protein arginine N-methyltransferase 1 activity. May regulate transcription of the IL2 gene during T-cell activation. Can promote the formation of stable DNA-dependent protein kinase holoenzyme complexes on DNA.

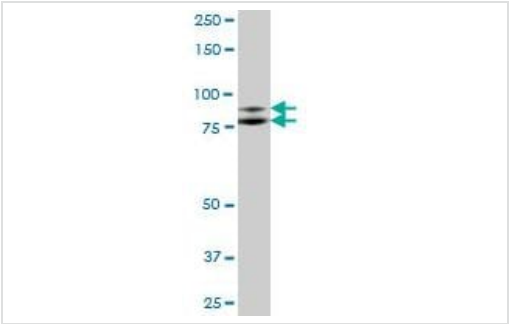
Tissue specificity Ubiquitous.

Sequence similarities Contains 2 DRBM (double-stranded RNA-binding) domains.
Contains 1 DZF domain.

Post-translational modifications Phosphorylated by RNA-dependent protein kinase (EIF2AK2).
Methylated by protein arginine N-methyltransferase 1.
Arg-609 is dimethylated, probably to asymmetric dimethylarginine.

Cellular localization Nucleus > nucleolus. Cytoplasm. Localized in cytoplasmic mRNP granules containing untranslated mRNAs.

Images

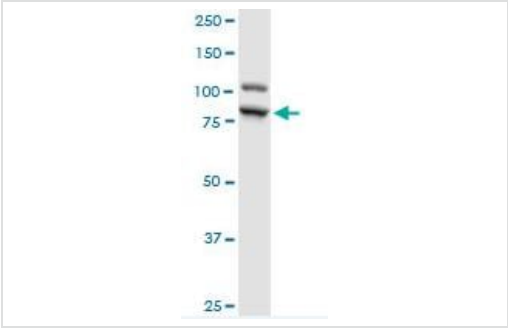


Western blot - Anti-ILF3 antibody (ab89100)

Anti-ILF3 antibody (ab89100) at 1 µg/ml + Human pancreas lysate at 50 µg

Predicted band size: 95 kDa

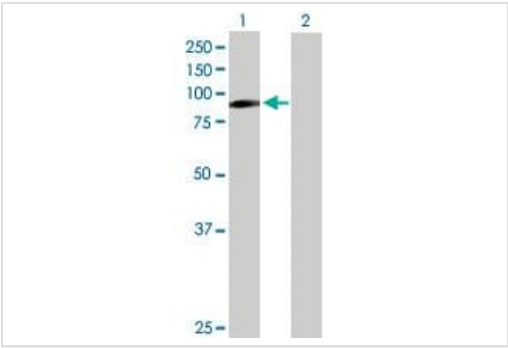
Observed band size: 80,95 kDa



Western blot - Anti-ILF3 antibody (ab89100)

Anti-ILF3 antibody (ab89100) at 1 µg/ml + HeLa cell lysate at 50 µg

Predicted band size: 95 kDa
Observed band size: 95 kDa
Additional bands at: 105 kDa. We are unsure as to the identity of these extra bands.



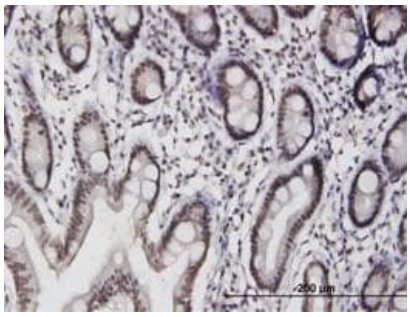
Western blot - Anti-ILF3 antibody (ab89100)

All lanes : Anti-ILF3 antibody (ab89100) at 1 µg/ml

Lane 1 : 293T transfected cell lysate
Lane 2 : Non-transfected lysate

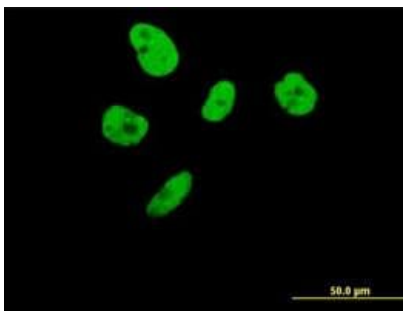
Lysates/proteins at 25 µg per lane.

Predicted band size: 95 kDa
Observed band size: 95 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ILF3 antibody (ab89100)

ab89100, at 3µg/ml, staining human ILF3in small intestine, using Immunohistochemistry, Formalin/PFA-fixed paraffin-embedded tissue.



Immunocytochemistry - Anti-ILF3 antibody (ab89100)

Immunocytochemistry analysis of HeLa cells labeling ILF3 with ab89100 at 10 µg/mL.

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