abcam

Product datasheet

Anti-ILF3 antibody [EPR3626] ab92355

Recombinant RabMAb

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Overview

Product name	Anti-ILF3 antibody [EPR3626]
Description	Rabbit monoclonal [EPR3626] to ILF3
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, Flow Cyt (Intra), ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Synthetic peptide within Human ILF3. The exact sequence is proprietary.
Positive control	Raji, HeLa and K562 cell lysates. Human kidney tissue.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
Purity	Protein A purified
Clonality	Monoclonal
Clone number	EPR3626
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92355 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
WB	★★★★☆ **(1)**	1/10000 - 1/100000. Predicted molecular weight: 95 kDa.
IHC-P		1/10000. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol. See **IHC antigen retrieval protocols**. **For unpurified use at 1/100 - 1/250.** The use of an HRP/AP polymerized antibody is recommended as these have been shown to provide enhanced staining.
Flow Cyt (Intra)		1/50 - 1/60. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
ICC/IF		1/250 - 1/500.

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.

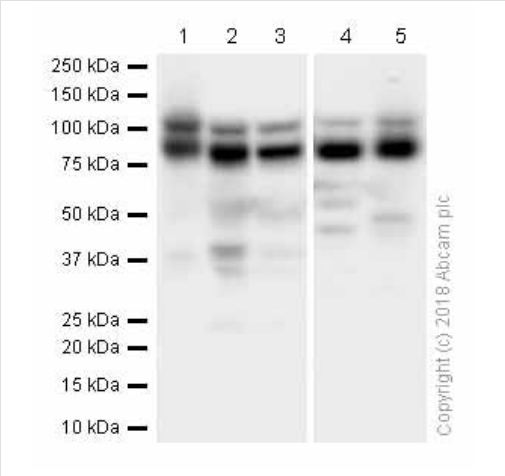
Tissue specificity Ubiquitous.

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 [EPR3626] (ab92355)

All lanes : Anti-ILF3 antibody [EPR3626] (ab92355) at 1/100000 dilution

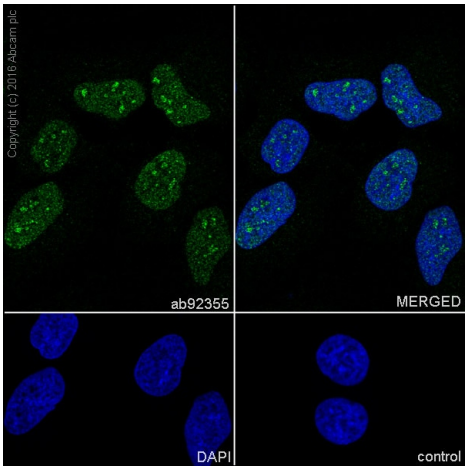
Lane 1 : Raji (Human Burkitt's lymphoma B lymphocyte) whole cell lysates
Lane 2 : SH-SY5Y (Human neuroblastoma epithelial cell) whole cell lysates
Lane 3 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 4 : Neuro-2a (Mouse neuroblastoma neuroblast) whole cell lysates
Lane 5 : C6 (Rat glial tumor glial cell) whole cell lysates

Lysates/proteins at 20 µg per lane.

Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (**ab97051**) at 1/20000 dilution

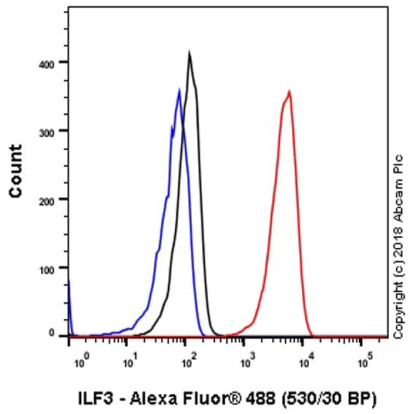
Predicted band size: 95 kDa

Blocking and diluting buffer: 5% NFDM/TBST.
The two bands are reported by PMID: 22842455 and 27872311.



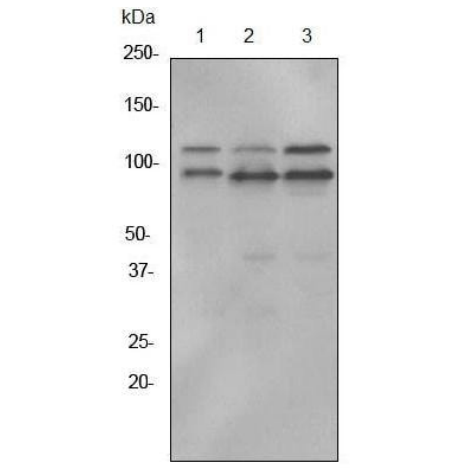
Immunocytochemistry/ Immunofluorescence - Anti-ILF3 antibody [EPR3626] (ab92355)

Immunofluorescence staining of HeLa cells with purified ab92355 at a working dilution of 1/500, counter-stained with DAPI. The secondary antibody was an Alexa Fluor® 488 conjugated goat anti-rabbit (**ab150077**), used at a dilution of 1/1000. The cells were fixed in 4% PFA and permeabilized using 0.1% Triton X 100. The negative control is shown in bottom right hand panel - for the negative control, PBS was used instead of the primary antibody.



Flow Cytometry (Intracellular) - Anti-ILF3 antibody [EPR3626] (ab92355)

Intracellular Flow Cytometry analysis of HeLa (Human cervix adenocarcinoma epithelial cell) cells labeling ILF3 with purified ab92355 at 1/60 dilution (10µg/ml) (red). Cells were fixed with 4% Paraformaldehyde. A Goat anti rabbit IgG (Alexa Fluor® 488) secondary antibody was used at 1/2000 dilution. Isotype control - Rabbit monoclonal IgG (Black). Unlabeled control - Cell without incubation with primary antibody and secondary antibody (Blue).



Western blot - Anti-ILF3 antibody [EPR3626] (ab92355)

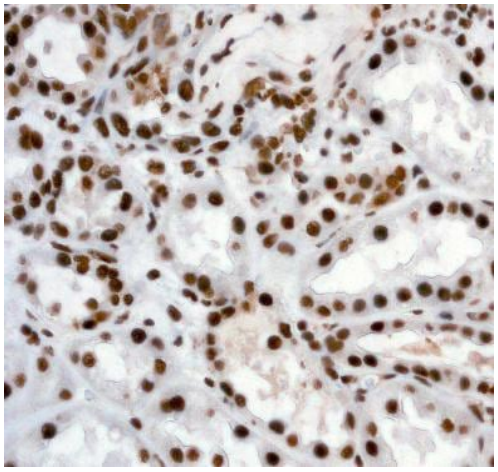
All lanes : Anti-ILF3 antibody [EPR3626] (ab92355) at 1/100000 dilution (unpurified)

Lane 1 : Raji cell lysate
Lane 2 : HeLa cell lysate
Lane 3 : K562 cell lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : HRP labelled goat anti-rabbit antibody at 1/2000 dilution

Predicted band size: 95 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ILF3 antibody [EPR3626] (ab92355)

ab92355 (unpurified) at 1/100 dilution staining ILF3 in paraffin-embedded Human kidney tissue, by immunohistochemistry.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

Flow Cytometry (Intracellular) - Anti-ILF3 antibody [EPR3626] (ab92355)

Overlay histogram showing HeLa cells stained with unpurified ab92355 (red line). The cells were fixed with 80% methanol (5 min) and then permeabilized with 0.1% PBS-Tween for 20 min. The cells were then incubated in 1x PBS / 10% normal goat serum / 0.3M glycine to block non-specific protein-protein interactions followed by the antibody (ab92355, 1/100 dilution) for 30 min at 22°C. The secondary antibody used was DyLight® 488 goat anti-rabbit IgG (H+L) (**ab96899**) at 1/500 dilution for 30 min at 22°C. Isotype control antibody (black line) was rabbit IgG (monclonal) (1µg/1x10^6 cells) used under the same conditions. Acquisition of >5,000 events was performed.

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