abcam

Product datasheet

Anti-LARP7 antibody ab105682

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Overview

Product name	Anti-LARP7 antibody
Description	Rabbit polyclonal to LARP7
Tested applications	**Suitable for:** ICC/IF, IHC-P, WB
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Rabbit, Horse, Chicken, Guinea pig, Cow, Cat, Dog, Pig
Immunogen	Synthetic peptide corresponding to a region within C terminal amino acids 533-582 (WQKILVDRQA KLNQPREKKR GTEKLITKAE KIRLAKTQQA SKHIRFSEYD) of Human LARP7 (NP_056269). Run BLAST with ExPASy Run BLAST with NCBI
Positive control	This antibody gave a positive signal in HeLa whole cell lysate within WB and MCF7 cell line within IF/ICC. IHC-P (FFPE): Human Lung (Normal)

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: None Constituents: 2% Sucrose, PBS
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab105682** 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/IF		Use a concentration of 5 µg/ml.

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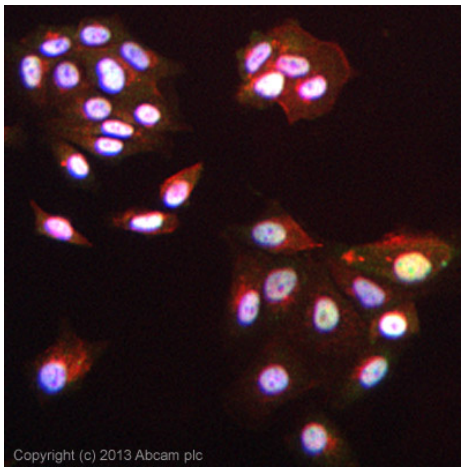
IHC-P		Use a concentration of 5 µg/ml. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
WB		Use a concentration of 0.5 µg/ml. Predicted molecular weight: 67 kDa. Good results were obtained when blocked with 5% non-fat dry milk in 0.05% PBS-T.

Target

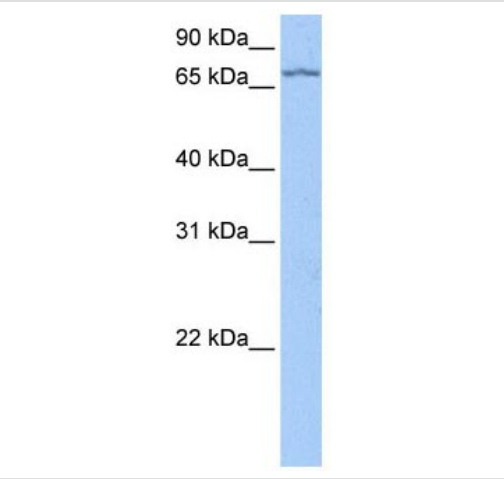
Function	Negative transcriptional regulator of polymerase II genes, acting by means of the 7SK RNP system. Within the 7SK RNP complex, the positive transcription elongation factor b (P-TEFb) is sequestered in an inactive form, preventing RNA polymerase II phosphorylation and subsequent transcriptional elongation.
Sequence similarities	Contains 1 HTH La-type RNA-binding domain. Contains 1 RRM (RNA recognition motif) domain.
Post-translational modifications	Phosphorylated upon DNA damage, probably by ATM or ATR.
Cellular localization	Nucleus > nucleoplasm.

Images



Immunocytochemistry/ Immunofluorescence - Anti-LARP7 antibody (ab105682)

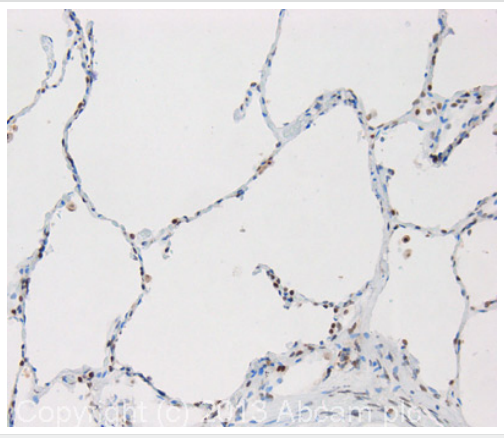
ICC/IF image of ab105682 stained MCF7 cells. The cells were 4% formaldehyde fixed (10 min) and then incubated in 1%BSA / 10% normal Goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab105682, 5µg/ml) overnight at +4°C. The secondary antibody (green) was ab96899, DyLight® 488 Goat anti-Rabbit IgG (H+L) used at a 1/250 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM.



Western blot - LARP7 antibody (ab105682)

Anti-LARP7 antibody (ab105682) at 0.5 µg/ml
+ Hela cell lysate at 10 µg/ml

Predicted band size : 67 kDa
Gel concentration: 12%



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-LARP7 antibody (ab105682)

IHC image of LARP7 staining in Human Lung formalin fixed paraffin embedded tissue section, performed on a Leica Bond system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab105682, 5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

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