

Product datasheet

Anti-FKLF / KLF11 antibody ab61207

[2 Images](#)

Overview

Product name	Anti-FKLF / KLF11 antibody
Description	Mouse monoclonal to FKLF / KLF11
Host species	Mouse
Tested applications	Suitable for: WB, ELISA, Flow Cyt
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Recombinant fragment with tag: TYFKSSHLKA HLRHTHTGEKP FNCSWDGCDK KFARSDLSR HRRHTHTGEKK FVCPVCDRRF MRSDHLTKHA RRHMTTKKIP GWQAEVGKLN RIASAESPGS PLVSMPASA, corresponding to amino acids 404-513 of Human FKLF/ KLF11 Run BLAST with ExPASy Run BLAST with NCBI
Positive control	HeLa cell nuclear extract.

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	Preservative: None Constituents: PBS, pH 7.2
Purity	Protein A purified
Clonality	Monoclonal
Isotype	IgG2a

Applications

Our [Abpromise guarantee](#) covers the use of **ab61207** in the following tested applications.

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

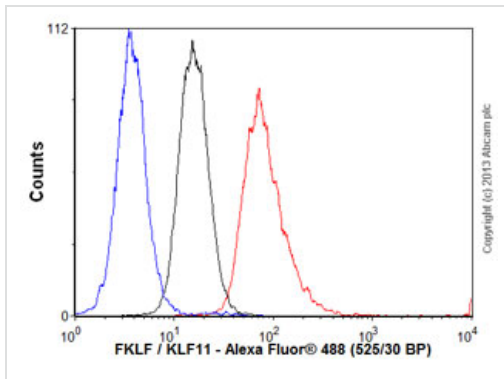
Application	Abreviews	Notes
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Application	Abreviews	Notes
WB		Use a concentration of 1 - 5 µg/ml. Detects a band of approximately 56 kDa (predicted molecular weight: 56 kDa).
ELISA		Use at an assay dependent concentration.
Flow Cyt		Use 1µg for 10 ⁶ cells. ab170191 - Mouse monoclonal IgG2a, is suitable for use as an isotype control with this antibody.

Target

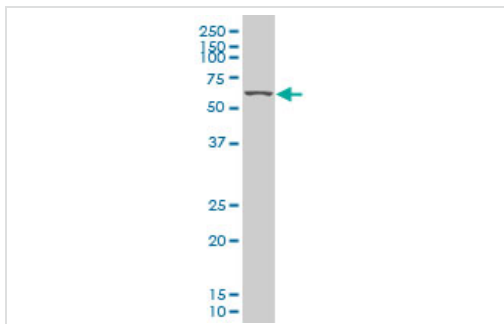
Function	Transcription factor. Activates the epsilon- and gamma-globin gene promoters and, to a much lower degree, the beta-globin gene and represses promoters containing SP1-like binding inhibiting cell growth. Represses transcription of SMAD7 which enhances TGF-beta signaling. Induces apoptosis.
Tissue specificity	Ubiquitous. Higher expression in erythroid cells.
Involvement in disease	Defects in KLF11 are the cause of maturity-onset diabetes of the young type 7 (MODY7) [MIM:610508]. MODY is a form of diabetes that is characterized by an autosomal dominant mode of inheritance, onset in childhood or early adulthood (usually before 25 years of age), a primary defect in insulin secretion and frequent insulin-independence at the beginning of the disease.
Sequence similarities	Belongs to the Sp1 C2H2-type zinc-finger protein family. Contains 3 C2H2-type zinc fingers.
Cellular localization	Nucleus.

Images



Flow Cytometry - Anti-FKLF / KLF11 antibody (ab61207)

Overlay histogram showing K562 cells stained with ab61207 (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 (ab61207, 1µg/1x10⁶ cells) for 30 min at 22°C. The secondary antibody used was Alexa Fluor® 488 goat anti-mouse IgG (H&L) (ab150113) at 1/2000 dilution for 30 min at 22°C. Isotype control antibody (black line) was mouse IgG2a [ICIGG2A] (ab91361, 1µg/1x10⁶ cells) used under the same conditions. Unlabelled sample (blue line) was also used as a control. Acquisition of >5,000 events were collected using a 20mW Argon ion laser (488nm) and 525/30 bandpass filter.



Western blot - FKLF / KLF11 antibody (ab61207)

Anti-FKLF / KLF11 antibody (ab61207) at 1 µg/ml + HeLa nuclear extract at 50 µg

Secondary

Goat Anti-Mouse IgG (H&L)-HRP at 1/2500 dilution

Predicted band size: 56 kDa

Observed band size: 56 kDa

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