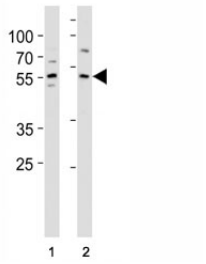
KLF4 Antibody (F41813)

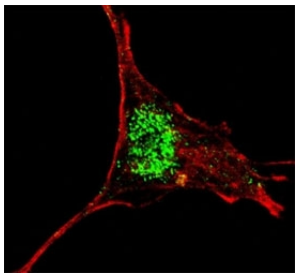
Catalog No.	Formulation	Size
F41813-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F41813-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

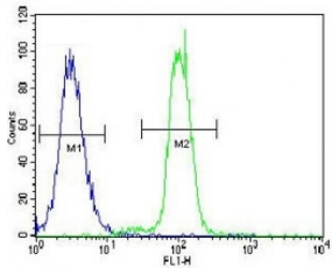
Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O43474
Applications	Western blot: 1:1000 Immunofluorescence: 1:10-1:50 Flow Cytometry: 1:10-1:50
Limitations	This KLF4 antibody is available for research use only.



KLF4 antibody western blot analysis in (1) A431 and (2) MCF-7 lysate. Predicted molecular weight: 50-60 kDa + possible ~75 kDa (phosphorylated form).



KLF4 Antibody SH-SY5Y Cell IF. Immunofluorescent staining of human SH-SY5Y cells using KLF4 antibody at a 1:200 dilution. KLF4 was detected with a green fluorescent secondary antibody, while the actin cytoskeleton is shown in red. KLF4 immunoreactivity is localized specifically to the nuclei, consistent with its established role as a transcription factor regulating stem cell maintenance, epithelial differentiation, and gene expression. This KLF4 Antibody is suitable for studies of pluripotency, cellular reprogramming, transcriptional regulation, and cancer biology.



KLF4 Antibody K562 Cell FACS. Flow cytometric analysis of human K562 cells using KLF4 antibody. The right histogram represents cells stained with KLF4 antibody, while the left histogram shows the negative control. A FITC-conjugated goat anti-rabbit secondary antibody was used for detection. A clear rightward shift is observed in the KLF4 antibody-stained population compared with the negative control, demonstrating specific detection of endogenous KLF4 expression. This KLF4 Antibody is suitable for studies of pluripotency, cellular reprogramming, epithelial differentiation, transcriptional regulation, and cancer biology.

Description

KLF4 is a transcription factor which acts as both an activator and repressor. Binds the CACCC core sequence. Binds to multiple sites in the 5'-flanking region of its own gene and can activate its own transcription. Required for establishing the barrier function of the skin and for postnatal maturation and maintenance of the ocular surface. Involved in the differentiation of epithelial cells and may also function in skeletal and kidney development.

Learn more about KLF4 biology and its role as a stem cell-associated transcription factor by visiting our KLF4 Antibody / Stem Cell Transcription Factor Antibody page.

Application Notes

Titration of the KLF4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 394-421 from the human protein was used as the immunogen for this KLF4 antibody.

Storage

Aliquot the KLF4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

Ordering: Phone: 858.663.9055 | Fax: 1.267.821.0800 | Email: info@nsjbio.com
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