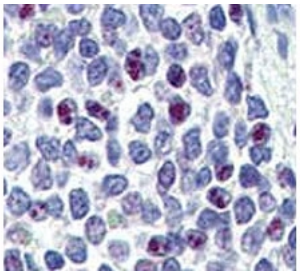
KLF4 Antibody (F48145)

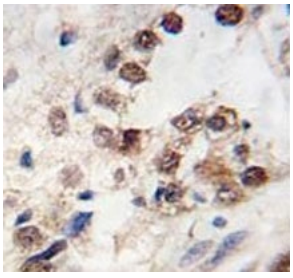
Catalog No.	Formulation	Size
F48145-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F48145-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

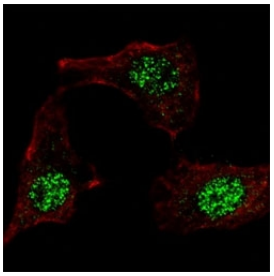
Availability	1-3 business days
Species Reactivity	Human, Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O43474
Applications	Western blot: 1:1000 Immunofluorescence: 1:10-1:50 IHC (Paraffin): 1:10-1:50
Limitations	This KLF4 antibody is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



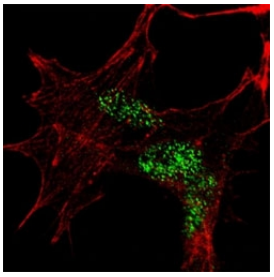
KLF4 Antibody HeLa Cell IF. Immunofluorescent staining of human HeLa cells using KLF4 antibody at a 1:100 dilution. KLF4 immunoreactivity is localized predominantly to the nuclei, consistent with its established role as a transcription factor regulating stem cell maintenance, epithelial differentiation, and gene expression. This KLF4 Antibody is suitable for studies of pluripotency, cellular reprogramming, transcriptional regulation, and cancer biology.



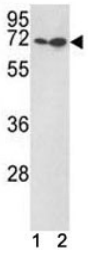
KLF4 Antibody Human Prostate Carcinoma IHC. Immunohistochemical staining of FFPE human prostate carcinoma tissue using KLF4 antibody. Heat-induced epitope retrieval was performed prior to incubation with the primary antibody, followed by detection using an HRP-conjugated secondary antibody with DAB chromogen. Tumor cells exhibit prominent nuclear staining, consistent with the established role of KLF4 as a nuclear transcription factor regulating epithelial differentiation, stem cell maintenance, and gene expression. This KLF4 Antibody is suitable for studies of pluripotency, cellular reprogramming, transcriptional regulation, and cancer biology.



KLF4 Antibody HeLa Cell IF. Immunofluorescent staining of human HeLa cells using KLF4 antibody at a 1:100 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 SH-SY5Y Cell IF. Immunofluorescent staining of human SH-SY5Y cells using KLF4 antibody at a 1:100 dilution. KLF4 was detected with a green fluorescent secondary antibody, while the actin cytoskeleton is shown in red. KLF4 immunoreactivity is localized predominantly 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 western blot with (1) Jurkat, (2) 293 lysate. Predicted molecular weight: 50-60 kDa + possible ~75 kDa (phosphorylated form).

Description

Transcription factor; can act both as activator and as repressor. Binds the 5'-CACCC-3' core sequence. Binds to the promoter region of its own gene and can activate its own transcription. Regulates the expression of key transcription factors during embryonic development. Plays an important role in maintaining embryonic stem cells, and in preventing their differentiation. 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 Contributes to the down-regulation of p53/TP53 transcription.

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

The stated application concentrations are suggested starting amounts. Titration of the KLF4 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 69-101 from the human protein was used as the immunogen for this KLF4 antibody.

Storage

Store at 4oC for up to one month. For long term, aliquot the KLF4 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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