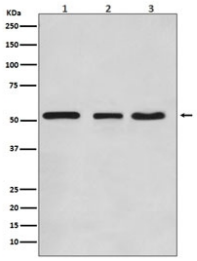
KLF4 Antibody [clone AODA-11] (RQ4737)

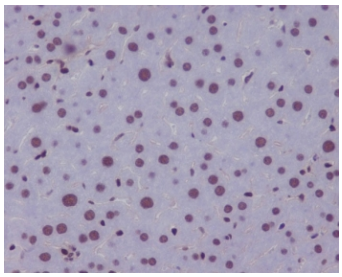
Catalog No.	Formulation	Size
RQ4737	Antibody in PBS with 0.02% sodium azide, 50% glycerol and 0.4-0.5mg/ml BSA	100 ul

Bulk quote request

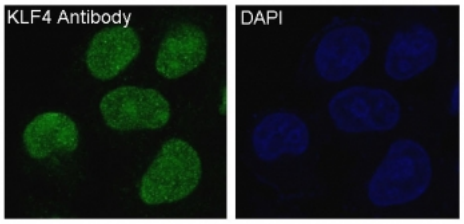
Availability	1-2 weeks
Species Reactivity	Human, Mouse, Rat
Format	Purified
Host	Rabbit
Clonality	Rabbit Monoclonal
Isotype	Rabbit IgG
Clone Name	AODA-11
Purity	Affinity purified
UniProt	O43474
Localization	Nuclear
Applications	Western blot: 1:500-1:2000 Immunohistochemistry (FFPE): 1:50-1:200 Immunofluorescence (FFPE): 1:50-1:200
Limitations	This KLF4 antibody is available for research use only.



Western blot testing of 1) human HeLa, 2) mouse NIH3T3 and 3) rat C6 cell lysate with KLF4 antibody. Predicted molecular weight: 50-60 kDa + possible ~75 kDa (phosphorylated form).



IHC staining of FFPE mouse liver tissue with KLF4 antibody. HIER: boil tissue sections in pH8 EDTA for 20 min and allow to cool before testing.



Immunofluorescent staining of FFPE human HeLa cells with KLF4 antibody (green) and DAPI nuclear stain (blue). HIER: steam section in pH6 citrate buffer for 20 min.

Description

KLF4 Antibody recognizes Kruppel-like factor 4, a member of the Kruppel-like family of zinc finger transcription factors that regulates gene expression involved in cell fate decisions. KLF4 functions primarily within the nucleus, where it controls transcriptional programs governing proliferation, differentiation, cell cycle arrest, and survival. Through these activities, it contributes to the maintenance of normal tissue architecture and cellular identity.

KLF4 is especially abundant in epithelial tissues and is well known for its role in preserving epithelial homeostasis and regulating differentiation. It also participates in stem cell maintenance, tissue regeneration, and cellular responses to environmental stress. Depending on biological context, altered KLF4 expression has been associated with developmental disorders, inflammatory diseases, and numerous types of cancer.

Because of its broad regulatory functions, KLF4 Antibody is widely used to evaluate protein expression and nuclear localization in cultured cells and tissue sections. A KLF4 Antibody is a valuable research tool for investigations of transcriptional regulation, epithelial biology, stem cell research, cancer progression, and developmental processes.

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

Optimal dilution of the KLF4 antibody should be determined by the researcher.

Immunogen

A synthetic peptide specific to human KLF4 was used as the immunogen for the KLF4 antibody.

Storage

Store the KLF4 antibody at -20oC.

Copyright © NSJ Bioreagents. All rights reserved.