KLF4 Antibody

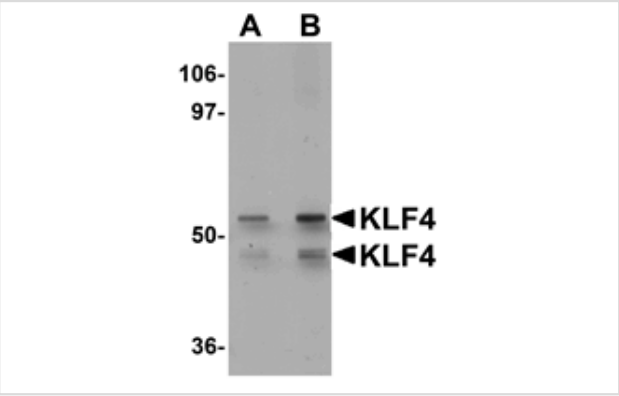
Catalog No: #25054

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

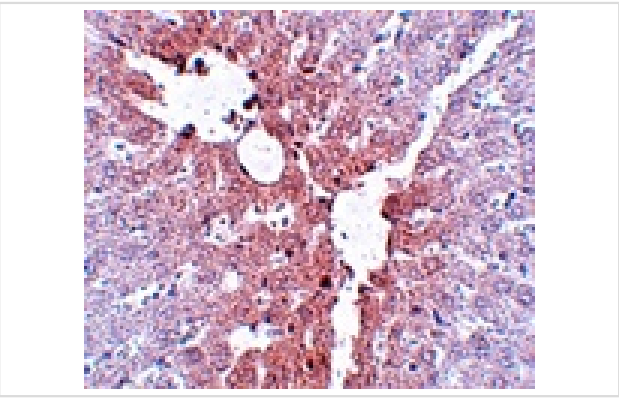
Description

Product Name	KLF4 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Affinity chromatography purified via peptide column
Applications	ELISA WB IHC
Species Reactivity	Hu Ms Rt
Immunogen Type	Peptide
Immunogen Description	Raised against a 20 amino acid peptide near the carboxy terminus of human KLF4.
Target Name	KLF4
Other Names	Kruppel-like factor 4, GKLF, EZF
Accession No.	Swiss-Prot:O43474Gene ID:9314
Uniprot	O43474
GeneID	9314;
Concentration	1mg/ml
Formulation	Supplied in PBS containing 0.02% sodium azide.
Storage	Can be stored at -20°C, stable for one year. As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.

Images



Western blot analysis of KLF4 in human liver tissue lysate with KLF4 antibody at (A) 1 and (B) 2 ug/mL.



Immunohistochemistry of KLF4 in rat liver tissue with KLF4 antibody at 5 ug/mL.

Background

KLF4 is a transcription factor that functions as both a transcriptional activator and repressor to regulate proliferation and differentiation of multiple cell types. The role of KLF4 in embryonic development suggested that it might be useful in the creation of stem cells that might be useful in cell replacement therapies in the treatment of several degenerative diseases. Artificial stem cells, termed induced pluripotent stem (iPS) cells, can be created by expressing KLF4 and the transcription factors POU5F1, Sox2, and Lin28 along with c-Myc in mouse fibroblasts. More recently, experiments have demonstrated that iPS cells could be generated using expression plasmids expressing KLF4, Sox2, POU5F1 and c-Myc, eliminating the need for virus introduction, thereby addressing a safety concern for potential use of iPS cells in regenerative medicine. KLF4 interacts directly with POU5F1 and Sox2 in iPS and ES cells and activates the target gene NANOG.

Note: This product is for in vitro research use only