

## **KLF7 Polyclonal Antibody**

**Purified Rabbit Polyclonal Antibody (Pab)** Catalog # AP54654

### **Specification**

## **KLF7 Polyclonal Antibody - Product Information**

Application WB, IHC-P, IHC-F, IF, ICC, E

**Primary Accession** 075840

Reactivity Rat, Pig, Dog, Bovine Host **Rabbit** 

Clonality **Polyclonal** Calculated MW **33 KDa** Physical State Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human KLF7

131-210/302 **Epitope Specificity** 

Isotype **Purity** 

Buffer 0.01M TBS (pH7.4) with 1% BSA, 0.02%

Proclin300 and 50% Glycerol.

SUBCELLULAR LOCATION Nucleus.

**SIMILARITY** Belongs to the krueppel C2H2-type

zinc-finger protein family. Contains 3

C2H2-type zinc fingers.

This product as supplied is intended for Important Note research use only, not for use in human, therapeutic or diagnostic applications.

### **Background Descriptions**

affinity purified by Protein A

KLF7 is a transcriptional activator that belongs to the Krüppel C2H2-type zinc finger protein family. KLF7 targets promotor regions bearing CACCC elements in order to regulate transcription. It is believed that KLF7 is an important element for regulation of differentiation and the development of nervous systems. Specifically, increased expression of KLF7 is associated with neuronal precursors exiting the cell cycle and beginning to differentiate. Overexpression of KLF7 can lead to cell cycle arrest and a decrease in DNA synthesis. Also, KLF7 is thought to regulate the expression of Trk A, the receptor for nerve growth factor, which is required for the normal growth and maturation of neurons. KLF7 is a widely expressed protein with highest expression found in brain and nervous tissue.

## **KLF7 Polyclonal Antibody - Additional Information**

**Gene ID 8609** 

### **Other Names**

Krueppel-like factor 7, Ubiquitous krueppel-like factor, KLF7 (<a href="http://www.genenames.org/cgi-bin/gene symbol report?hgnc id=6350" target=" blank">HGNC:6350</a>)



**Target/Specificity** 

Ubiquitous and highly expressed in brain and spinal cord in the adult, and in kidney and brain in the embryo.

#### **Dilution**

<span class ="dilution\_WB">WB~~1:1000</span><br \><span class
="dilution\_IHC-P">IHC-P~~N/A</span><br \><span class
="dilution\_IHC-F">IHC-F~~N/A</span><br \><span class
="dilution\_IF">IF~~1:50~200</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_ICC">ICC~~N/A</span><br \><span class ="dilution\_ICC">ICC~~N/A</span>

# **Storage**

Store at -20  $^{\circ}$ C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4  $^{\circ}$ C.

## **KLF7 Polyclonal Antibody - Protein Information**

Name KLF7 (<u>HGNC:6350</u>)

### **Function**

Transcriptional factor (PubMed:<a href="http://www.uniprot.org/citations/16339272" target="\_blank">16339272</a>, PubMed:<a href="http://www.uniprot.org/citations/9774444" target="\_blank">9774444</a>). Plays a critical role in neuronal morphogenesis and survival of sensory neurons (By similarity). Represses the corneal epithelium differentiation (PubMed:<a href="http://www.uniprot.org/citations/28916725" target="\_blank">28916725</a>). Also acts as a metabolic regulator, by modulating insulin sensitivity in pancreatic beta cells and skeletal muscle cells (PubMed:<a href="http://www.uniprot.org/citations/16339272" target="\_blank">16339272" target="\_blank">16339272</a>). Inhibits transcriptional inducers of adipogenesis and has a repressive role in the expression of several adipokines, including leptin (PubMed:<a href="http://www.uniprot.org/citations/16339272" target="\_blank">16339272</a>).

## **Cellular Location**

Nucleus.

### **Tissue Location**

Widely expressed.

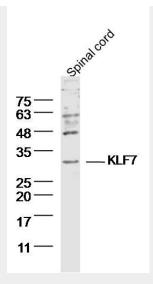
### **KLF7 Polyclonal Antibody - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

# KLF7 Polyclonal Antibody - Images





Sample: Spinal code (Mouse) Lysate at 40 ug Primary: Anti-KLF7 (bs-11865R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD Observed band size: 33 kD